



SUBMITTAL PACKAGE

# Black Pearl®

Cold Fluid Applied Rubberized Asphalt  
Roofing & Waterproofing System



# Black Pearl® Submittal Package

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# What Makes Barrett the Best Value in Roofing and Waterproofing Systems?

Barrett has been serving the roofing and waterproofing industry since 1928 and specializing in hot fluid-applied rubberized asphalt since 1975. Decades of experience in the manufacturing, system design, and application of moisture protection systems allows Barrett to offer "World Class" specification and application support.

Barrett system designs and details do not compromise quality or long term performance for a competitive edge. Barrett is dedicated to the proven performance of polymer-modified asphalt technology and does not compromise its drive for excellence by offering less sustainable systems.

Roofing performance promises are easy to make, hard to deliver. Almost all roofing material manufacturers advertise and profess to offer the "best" or "ultimate" systems and to meet every need of every customer. But our systems and components often exceed industry standards and have developed a reputation for being "bulletproof." And with projects like the Lincoln and Jefferson Memorial, Fort Knox, the Martin Luther King, Jr. Memorial Library, Millenium Park, Terminal Tower, and more under our belt, it's easy to understand why.



**2** Barrett projects (The Lincoln Memorial & the IMF Headquarters One and Two) have won the NRCA "Gold Circle Award."

**4** Greenroof Roofscapes® with RamTough 250 have been awarded the prestigious GRHC "Award of Excellence."

Barrett's primary expertise in roofing and waterproofing technologies, combined with long-term relationships with suppliers of supplemental products, allow for single source designs and system warranties. Many years of "hands-on" installation experience has provided Barrett with the know-how to bring together roofing and waterproofing components into compatible system designs consistent with real-world workmanship to successfully complete unique projects.

Barrett offers a national network of approved contractors which have demonstrated their ability to install high-performance systems and a willingness to work cooperatively with others to meet overall project objectives. An RCI Registered Roof Consultant is on staff to service customers and lead the technical competencies of the company.

Unlike most of our direct competitors, Barrett products are "Made in the USA". Buying domestic products means improving our balance of trade, supporting our workforce, helping our economy, and sustaining environmental initiatives. Barrett products are available from distributors nationwide.



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# 550 Madison Ave

Manhattan, NY | 7,271 sq. ft.

**Property Owner:** Olayan America; Chelsfield  
**Project Architects:** Philip Johnson & John Burgee; Snøhetta  
**Waterproofing Contractors:** Related Services  
**Roof/Membrane Inspector:** Joseph Strickland  
**Waterproofing System:** Black Pearl® Cold Applied Asphalt

Known to many as the Sony Tower and before that as the AT&T Building, the famed landmark skyscraper standing at 550 Madison is one of the latest to see a major renovation. Originally completed in 1984, the Philip Johnson and John Burgee-designed is possibly best known for its unique, Chippendale-style roof pediment.



The 37-story building has 852,830 square feet of rentable mixed-use space. The building features approximately 776,000 square feet of office space, prime retail frontage on Madison Avenue, and exhibition and museum space. At its base, the recently remodeled interior lobby features a LEED® Platinum and WELL Gold certified open public garden space designed by Snøhetta.

But at its peak, the iconic “Chippendale” pediment, which has occupied a pivotal part of the Manhattan skyline for almost 40 years, has been wrapped in Barrett’s Black Pearl® Cold Applied Asphalt Protected Membrane Roof System.



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## Featured Projects | Black Pearl® Cold Applied Asphalt



**1405 Point at Harbor Point, Baltimore, MD** offers a unique living experience unlike anything else in Baltimore. A LEED Silver building, 1405 Point rises 17 stories above Baltimore's Inner Harbor. Residents have access to a variety of best-in-class amenities including a fitness center with yoga room, 11th floor pool overlooking the Inner Harbor, grilling stations, and a full media lounge.

**Project Architects:** *Populous*  
**General Contractors:** *Brasfield & Gorrie*



**South Boston Waterfront Transportation Center, Boston, MA** is a unique, multi-faceted parking garage that includes the design and construction of a multi-level, multi-user parking facility on a portion of Massport's Core Block parcel in South Boston's Seaport District. Built over and supported by the I-90 tunnel structure, the facility supports 21,000 sq/ft of Black Pearl® Waterproofing.

**Project Architects:** *Fennick McCredie Architecture*  
**General Contractors:** *Heritage Restoration, Inc*



**Conklin Hall at SUNY Farmingdale State College, Farmingdale, NY** houses student government & clubs, student activities staff, and a broadcast studio. In addition to offices and conference rooms, the two-story, 19,700 square-foot building includes a high-tech media lounge, game room and two outdoor patios, which are protected by Barrett's Black Pearl® Cold Asphalt Waterproofing System.

**Project Architects:** *BRB Architects*  
**General Contractors:** *Restore Technologies*



**Gant Science Complex at UCONN, Storrs, CT** underwent significant renovations as part of Next Generation Connecticut, the 2013 initiative to expand educational opportunities, research, and innovation in the STEM disciplines at UConn. With a focus on improving the energy efficiency & performance of the 285k sq/ft campus landmark, the design included a 3,000 sq/ft Black Pearl® Plaza Deck Membrane.

**Project Architects:** *Goody Clancy*  
**General Contractors:** *Whiting Turner; Silktown Roofing*



**Art Museums of Colonial Williamsburg, Williamsburg, VA** saw their first large-scale expansion & upgrade in April 2017. The 65,000-square-foot expansion, which began in September 2017, includes a grand concourse that connects the building's two museums—And beneath that concourse lies 45,500 sq/ft of Barrett's Black Pearl® Waterproofing System.

**Project Architects:** *Samuel Anderson Architects*  
**Contractors:** *Compass Contracting, Inc*



**Bronx Commons, Bronx, NY** is one of the most environmentally-friendly projects in the five boroughs, and helps raise the bar for sustainability in affordable housing development. With 305 units over 12 stories, Bronx Commons has been protected by 9,200 sq/ft of Black Pearl® Cold Applied Asphalt Waterproofing & Flashings, covered by a Ram 203 Protection Course.

**Architects:** *Danois Architects, PC*  
**General Contractors:** *H Klein & Sons, Inc*



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# Black Pearl® Sheet Membrane

55 Mil Asphalt-Coated Polyester Fiberglass-Reinforced Double-Sided Peelable Sheet Membrane

## Description

Black Pearl® is a cold sheet applied rubberized asphalt waterproofing system that is composed of two primary products:

- **Black Pearl® Adhesive**
- **Black Pearl® Sheet Membrane**

**Black Pearl® Adhesive** utilizes a core formula of select, unoxidized asphalt cement base, butyl rubber, styrene isoprene styrene (SIS), neoprene rubber, styrene-butadiene-styrene rubber (SBS), fillers, plasticizers and curing agents. Black Pearl® Adhesive also has an aliphatic solvent that is within acceptable OSHA and EPA current regulations.

Unlike similar waterproofing membranes reinforced with glass fabric, the 55-mil **Black Pearl® Sheet Membrane** is made with FSC Textbond® spunbond polyester that is reinforced with integral longitudinal fiberglass strands set 3/8" apart in the machine direction. This synergistic combination provides polyester's well known elastic elongation, puncture and tear resistance with the tensile strength and stability of fiberglass.

Black Pearl® Sheet Membrane has been impregnated on both sides with the same Black Pearl® rubberized formula as its adhesive counterpart, which is protected by a peelable polyethylene release liner allowing for the unique benefit of complete walkability during application.

The compatibility between the two components is 100 percent, with the Black Pearl® Adhesive acting as a catalyst on the sheets and chemically fusing the system elements together (including flashings) into a thick, semi-monolithic waterproof membrane.

Black Pearl® (BP) Waterproofing System has the unique ability to be applied to green and damp concrete. It is also compatible with asphaltic products enabling restoration of project that were originally asphaltic based and ties to hot rubberized asphalt. It can be applied at temperatures as low as 0°F.

## Uses

- New and restoration applications
- Plaza deck waterproofing systems
- Protected membrane roofs (IRMA®)\*
- Green Roof Roofscapes®
- Vertical waterproofing applications
- Parking decks, bridges, water treatment plants
- Between slab waterproofing membrane systems



### Packaging

#### BP Sheet Membrane

39.5"x66'  
53 lbs per roll  
20 rolls per pallet

#### BP Adhesive

5 gallon pails  
(4.75 gallons per pail)  
42 lbs per pail  
36 pails per pallet



### Coverage

#### BP Sheet Membrane:

39.5"x66' = 217 sq ft

#### BP Adhesive:

225 sq ft per 5 gallon Pail



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## Properties

Description	Test Method	Test Results	Comments
<b>2 Ply System, ASTM D-6769</b>			
Breaking Strength, lbf/in	ASTM D-146	89 MD, 70 XD	
Elongation, %	ASTM D-146	46 MD, 64 XD	
Puncture Strength, lbf	ASTM E-154, S10	202	
Tear Strength, lbf	ASTM D-1004	25 MD, 23 XD	
Hydrostatic Resistance, (Mullen) psi	ASTM D-751 Procedure A	250	
Water Vapor Permeance, perms (desiccant)	ASTM E-96	0.04	
*Bonded Pull, lbs/Ft. <sup>2</sup>	ASTM C-836	200	
Low Temp Crack Bridging	ASTM C-1305	-15°F	Pass
Extensibility After Heat Aging	ASTM C-1522		Pass
Adhesion Strength lbf/in, CMV	ASTM C-836	1.5	
Resistance to water, visual	ASTM D-2939 Section 15		Pass
Remain in-place during Application, visual	ASTM C-836		Pass
Wind Uplift	FM 4474/	200 lbs/Ft. <sup>2</sup>	
Sheet Ductility	TAS 114D/	58°F	
Passes the ICC-ES AC 29 Table 1 for use as waterproofing and damproofing over concrete, CMU and plywood.			

LIMITED WARRANTY: Barrett warrants its Products to be free of defects in materials, but makes no warranty as to appearance or color. Since methods of application and on-site conditions are beyond our control and can affect performance, Barrett makes no other warranty, expressed or implied, including warranties of MERCHANTABILITY and FITNESS FOR A PARTICULAR PURPOSE, with respect to The Barrett Company, LLC. Barrett to replace or to refund the purchase price of the quantity of Barrett proven to be defective, and Barrett shall not be liable for any loss or damage.



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# Black Pearl® Adhesive

Cold Fluid Applied Rubberized Asphalt  
Roofing & Waterproofing Membrane



## Description

Black Pearl® is a cold sheet applied rubberized asphalt waterproofing system that is composed of two primary products:

- **Black Pearl® Adhesive**
- **Black Pearl® Sheet Membrane**

**Black Pearl® Adhesive** utilizes a core formula of select, unoxidized asphalt cement base, butyl rubber, styrene isoprene styrene (SIS), neoprene rubber, styrene-butadiene-styrene rubber (SBS), fillers, plasticizers and curing agents. Black Pearl® Adhesive also has an aliphatic solvent that is within acceptable OSHA and EPA current regulations.

Unlike similar waterproofing membranes reinforced with glass fabric, the 55-mil **Black Pearl® Sheet Membrane** is made with FSC Textbond® spunbond polyester that is reinforced with integral longitudinal fiberglass strands set 3/8" apart in the machine direction. This synergistic combination provides polyester's well known elastic elongation, puncture and tear resistance with the tensile strength and stability of fiberglass.

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## Uses

New and restoration applications  
Plaza deck waterproofing systems  
Protected membrane roofs (IRMA®)\*  
Green Roof Roofscapes®  
Vertical waterproofing applications  
Parking decks, bridges, water treatment plants  
Between slab waterproofing membrane systems

### Packaging

#### BP Sheet Membrane

39.5"x66'  
53 lbs per roll  
20 rolls per pallet

#### BP Adhesive

5 gallon pails  
(4.75 gallons per pail)  
42 lbs per pail  
36 pails per pallet

### Coverage

#### BP Sheet Membrane:

39.5"x66' = 217 sq ft

#### BP Adhesive:

225 sq ft per 5 gallon unit



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## Properties

Description	Test Method	Test Results	Comments
<b>2 Ply System, ASTM D-6769</b>			
Breaking Strength, lbf/in	ASTM D-146	89 MD, 70 XD	
Elongation, %	ASTM D-146	46 MD, 64 XD	
Puncture Strength, lbf	ASTM E-154, S10	202	
Tear Strength, lbf	ASTM D-1004	25 MD, 23 XD	
Hydrostatic Resistance, (Mullen) psi	ASTM D-751 Procedure A	250	
Water Vapor Permeance, perms (desiccant)	ASTM E-96	0.04	
*Bonded Pull, lbs/Ft. <sup>2</sup>	ASTM C-836	200	
Low Temp Crack Bridging	ASTM C-1305	-15°F	Pass
Extensibility After Heat Aging	ASTM C-1522		Pass
Adhesion Strength lbf/in, CMV	ASTM C-836	1.5	
Resistance to water, visual	ASTM D-2939 Section 15		Pass
Remain in-place during Application, visual	ASTM C-836		Pass
Wind Uplift	FM 4474/	200 lbs/Ft. <sup>2</sup>	
Sheet Ductility	TAS 114D/	58°F	
Passes the ICC-ES AC 29 Table 1 for use as waterproofing and damproofing over concrete, CMU and plywood.			
<b>Black Pearl® Adhesive</b>			
Solids Content %	ASTM C-1250	77	
Softening Point °F	ASTM D-36	220	
Penetration, 100g @ 77°F, dmm	ASTM D-5	162	
VOC - Rule 66 Naptha	EPA	<230 g/L.	

LIMITED WARRANTY: Barrett warrants its Products to be free of defects in materials, but makes no warranty as to appearance or color. Since methods of application and on-site conditions are beyond our control and can affect performance, Barrett makes no other warranty, expressed or implied, including warranties of MERCHANTABILITY and FITNESS FOR A PARTICULAR PURPOSE, with respect to The Barrett Company, LLC. Barrett to replace or to refund the purchase price of the quantity of Barrett proven to be defective, and Barrett shall not be liable for any loss or damage.



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# Black Pearl® Butyl Tape

Non-Hardening Butyl Rubber Extruded Tape Sealant



## Description

Black Pearl® Butyl tape compound is a nonhardening butyl rubber extruded tape sealant. It will remain flexible and develop an immediate and permanent bond to a wide range of metal, concrete, glass and most plastics substrates.

## Features

- Meets or exceeds Industry Specifications
- Good Chemical Resistance to chemicals noted
- Good Cold Weather Flexibility at -10°F
- Wide Range of Application Temperature
- Easy Application
- Permanently Flexible, no shrinkage, non-corrosive
- Black Pearl Butyl Tape resists oxidization and hardening

## Benefits

- No Visual Deterioration
- 180° Bend
- No adhesion loss
- No cracking
- Service Temperature
- -40°F to 200°F
- Application Temperature
- 20°F to 120°F
- 100% solids, no cure shrinkage
- Watertight Joints Hydrostatic Performance - ASTM C-990 Sec. 10.1 - 10 psi for 10 min.

Properties	Measurement	Test Method
Color	Black	Visual
Specific Gravity	1.38 to 1.48	ASTM C-135
Hydrocarbon Content	50% min.	ASTM C-990
Ash Content	45% to 48%	AASHTOT111
Ductility @ 77°F	6.0 cm	ASTM D113
Compression Index @ 77°F	40-55 lbf/in3	ASTM C 972
Compression Index @ 32°F	130 - 160 lbf/in3	
Elongation @ 77°F	350%	ASTM D412
Solids Content	99%	ASTM D6
Elevated Temperature Flow	No sag or shapechange after 14 days @ 158°F	ASTM C766
Adhesion after impact	No loss of adhesion	ASTM C990
Cone Penetration @ 77°F	70-to 95	ASTM D217 (w/300g. total load)
Cone Penetration @ 40°F	40-to 60	
Cone Penetration @ 0°F	30 to 60	
Chemical Resistance	No visible change after 30 days immersion in 5% solutions of HCl, H2SO4,NaOH, KOH, H2S	SS-S-2101 Sec. 3.6
Low Temperature Flexibility	No cracking or adhesion loss at -10°F	ASTM C765



- 1" x 1" x 14.5 LF/roll (6 rolls/case)
- 1/8" x 2" x 20 LF/roll (12 rolls/case)
- 1/8" x 4" x 50 LF/roll (2 rolls/case)



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## Instructions

Black Pearl® warranted waterproofing systems are only installed by select Barrett Approved Contractors. Preinstallation meetings with all stakeholders are highly recommended. Prior to job start the site should be inspected, ensuring all drains are properly installed and operative, all pipe and sleeve penetrations in place and secure, suitable material storage and access determined and most importantly, that all substrates and detailing are acceptable. Installing Contractor shall keep copies of Black Pearl Installation Guide and Details on jobsite at all times work is progressing.

## Limitations

Not recommended for use or exposure with oils or hydrocarbon solvents.

## Application Properties

Storage: Under 120°F

Shelf Life: 2 years minimum

## Product Safety Information

READ SAFETY DATA SHEET BEFORE USING. FOR PROFESSIONAL ROOFING CONTRACTOR USE ONLY

Barrett Black Pearl® Butyl Tape offers no unusual health or safety risks for a product of this nature. As with any roofing process, proper ventilation, clothing and eye protection is important.

For specific information, contact the Barrett Company for a current Safety Data Sheet on this product.

The user should not assume that all safety measures are indicated or that other measures may not be required.

## Note

All statements, information and data given herein are believed to be accurate and reliable, but are presented without guaranty, warranty or responsibility of any kind, expressed or implied, except as may be indicated herein. Statements or suggestions concerning possible uses of our products are made without representation or warranty that any such use is free of patent infringement and are not recommendations to infringe any patent.

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# RamFlash PMMA Fleece

Polyester Reinforcement Fabric



## Description

RamFlash PMMA Fleece is a non-woven, needle-punched polyester fabric to reinforcement the RamFlash PMMA Membrane cold liquid-applied reinforced PMMA waterproofing membrane systems.

## Uses

RamFlash PMMA Fleece reinforcement the RamFlash PMMA Membrane to improve strength tear and puncture resistance while the membrane remains uniform.

## Surface Preparation

RamFlash PMMA Fleece is to be kept clean and be embedded into the RamFlash PMMA Membrane immediately.

## Storage

Store in cool and dry location. Store flat to avoid deforming rolls and creasing fabric.

## Application

Refer to RamFlash PMMA Membrane Installation Instructions.

## Properties

Description	Measurement		
	200	165	120
Color	White	White	White
Physical state	Solid	Solid	Solid
Thickness (165/200 fleece)	70 mils	50 mils	40 mils
Weight (g/m <sup>2</sup> )	200	165	120
Tensile strength @ break	>2,200 lbs.	>1,775 lbs.	>1,550 lbs.
Elongation	>75%	>75%	>65%
Tear resistance	>885 lbs.	>665 lbs.	>530 lbs.
Puncture strength	>1,245 lbs.	>1,110 lbs.	>1,065 lbs.



Packaging

13.8" x 164' 3 per bag  
20.7" x 164' 2 per bag  
41.3" x 164' 1 per bag

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# RamFlash PMMA Membrane



## Two-part Polymethyl Methacrylate Membrane

### Description

RamFlash Membrane is a two-part quick-curing, UV-stable waterproof and roofing Polymethyl Methacrylate (PMMA) membrane.

### Uses

RamFlash Membrane is designed to be used as a waterproof/ roofing flashing material in conjunction with RamTough 250 and/or Black Pearl Membranes. RamFlash PMMA Membrane is applied before the installation of RamTough 250 and/or Black Pearl. Do to its UV-stability it can be left exposed to the elements as a waterproof coating.

### Color

Gray and White

### Storage

Always store in cool and dry location. Do not store in direct sunlight or in temperatures below 35°F (1.7°C) or above 80°F (27°C). Approximate shelf life 12 months with proper storage. RamFlash PMMA Catalyst Powder must be stored separately.

### Catalyst Powder Requirements

Material Temp °F	Catalyst Powder (300g/bag)	Pot Life (min)	Completely Cured (min.)
23°F - 35°F	2 bags	45	90
35°F - 50°F	2 bags	35	70
50°F - 70°F	1 1/2 bags	30	40
70°F - 85°F	1 bag	20	30
>85°F	1/2 bag	20	30

### Properties

Description	Measurement	Testing
Color	Gray & White	
Physical State	Cures to Solid	
Thickness (120 Fleece)	90 mils	
VOC Content	32 g/l	
Peak Load @ 73 F, avg.	D5147 70 lbf/in	
Elongation	Min 30%	D5147
Tearing Strength	80 lbf	D5147
Dimensional stability	0.05%	D1204
Water absorption	0.05% (7 days)	D570
Impact Resistance	Shore A:75 +/- 5	D2240
Crack spanning	2 mm/0.08 inch	
Short-term temperature resistance	250 °C/482 °F	
Usage time*	20 minutes	
Rainproof after*	30 minutes	
Solid to walk on after*	30 minutes	
Apply coating after*	60 minutes	
Apply overburden after*	60 minutes	
Completely hardened*	6 hours	



15 kg units-Approximately 5-gallon units  
48 units per pallet



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## Surface Preparation

All surfaces must be free from gross irregularities, loose, unsound or foreign material such as dirt, ice, snow, water, grease, oil, release agents, lacquers, or any other condition that would be detrimental to adhesion of the primer and membrane. This requires careful preparation of existing horizontal and vertical substrates; cracks are filled, expansion joints are prepared, flashings are removed or modified, and termination points are determined. Substrates and penetrations are prepared to rigorous industry standards, and may require scarifying, sandblasting or grinding in some cases to achieve a suitable substrate.

*NOTE: Prior to opening the containers of RamFlash Membrane, wear appropriate safety glasses and protect hands and wrists by wearing gloves.*

## Material Preparation

RamFlash PMMA Membrane may be applied when the ambient temperature is between 35°F (2°C) and rising. The substrate temperature must be a minimum of 5 degrees above the dew point. RamFlash PMMA Membrane must be applied to primer within 48 hours of primer application. Primer exposed for more than 48 hours must be re-primed.

Provide and maintain positive airflow over freshly applied RamFlash PMMA materials during entire curing period to facilitate complete cure. Natural airflow is typically sufficient for exterior applications, but locations such as beneath large mechanical units, at inside corners, at the base of high walls, and other similar areas where stagnant air may occur should be provided with powered fans.

**Step 1:** Allow RamFlash PMMA Primer to cure completely prior to application of the RamFlash PMMA Membrane.

**Step 2:** Mix RamFlash PMMA Membrane with a spiral agitator, until the liquid is a uniform color, with no streaks present.

**Step 3:** Add the 300 g RamFlash PMMA Catalyst Powder to RamFlash PMMA Membrane according to temperature table and mix with the same agitator for 2 minutes or until the powder is completely mixed throughout the liquid resin. The amount of Catalyst Powder must be adjusted according to the ambient temperature (see table).

*NOTE: RamFlash PMMA Primer is extremely fast curing. Excessive mixing time reduces the available working time for the Primer.*

**Step 4:** Apply RamFlash PMMA Membrane with a nap roller or brush apply 2/3 of the resin liberally and evenly onto the surface in even stroke. Covering one working area at a time, between 10 - 15 ft<sup>2</sup> (0.56-0.84 sq meters).

**Step 5:** Roll the RamFlash PMMA Fleece directly into the Resin, making sure the SMOOTH SIDE IS FACING UP (natural unrolling procedure), avoiding folds and wrinkles. Use the roller or brush to work the resin into the fleece, saturating from the bottom up.

**Step 6:** Apply the remaining 1/3 of the resin to the top of RamFlash PMMA Fleece to complete the saturation. Rolling the final coat of RamFlash PMMA Membrane onto the RamFlash PMMA Fleece should result in a glossy appearance. The RamFlash PMMA Fleece can only hold so much resin and all excess should be rolled forward to the unsaturated portion of the RamFlash PMMA Fleece. The correct amount of RamFlash PMMA Membrane will completely saturate the RamFlash PMMA Fleece and no dry spots should be visible. Work wet RamFlash PMMA Membrane to avoid any blisters, openings, or lifting at corners, junctions, and transitions. Always assure full saturation.

**Step 7:** RamFlash PMMA Membrane must be fully cured and tack free before applying RamTough 250 or Black Pearl.

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# RamFlash PMMA Primer



## Two-part Polymethyl Methacrylate Primer

### Description

RamFlash PMMA Primer is a two-part quick-curing primer for porous and non-porous substrates to prepare for the application of RamFlash PMMA Membrane.

### Uses

RamFlash PMMA Primer is designed to prepare substrates for the RamFlash PMMA Membrane system to be used in conjunction with RamTough 250 and/or Black Pearl Membranes.

### Storage

Always store in cool and dry location. Do not store in direct sunlight or in temperatures below 35°F (1.7°C) or above 80°F (27°C). Approximate shelf life 12 months with proper storage. RamFlash PMMA Catalyst Powder must be stored separately.

### Catalyst Powder Requiements

Material Temp °F	Catalyst Powder (100g/bag)	Pot Life (min)	Completely Cured (min.)
35°F - 50°F	2 bags	20	45
50°F - 64°F	2 bags	20	30
65°F - 85°F	1 bag	15	30
>85°F	1/2 bag	10	15

### Properties

Description	Measurement
Color	Transparent
Physical State	Cures to solid
VOC Contents	62 g/l
Usage Time*	15 minutes
Water Resistant After*	30 minutes
Cures After*	30 minutes
Apply Membrane/Coating After*	30 minutes



Packaging

5 kg units-Approximately 1-gallon units  
Area 125 sq ft



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## Surface Preparation

All surfaces must be free from gross irregularities, loose, unsound or foreign material such as dirt, ice, snow, water, grease, oil, release agents, lacquers, or any other condition that would be detrimental to adhesion of the primer and membrane. This requires careful preparation of existing horizontal and vertical substrates; cracks are filled, expansion joints are prepared, flashings are removed or modified, and termination points are determined. Substrates and penetrations are prepared to rigorous industry standards, and may require scarifying, sandblasting or grinding in some cases to achieve a suitable substrate.

*NOTE: Prior to opening the containers of RamFlash Primer, wear appropriate safety glasses and protect hands and wrists by wearing gloves.*

## Material Preparation

RamFlash PMMA Primer may be applied when the ambient temperature is between 35°F (2°C) and rising. The substrate temperature must be a minimum of 5 degrees above the dew point. RamFlash PMMA Membrane must be applied to primer within 48 hours of primer application. Primer exposed for more than 48 hours must be re-primed.

Provide and maintain positive airflow over freshly applied RamFlash materials during entire curing period to facilitate complete cure. Natural airflow is typically sufficient for exterior applications, but locations such as beneath large mechanical units, at inside corners, at the base of high walls, and other similar areas where stagnant air may occur should be provided with powered fans.

**Step 1:** Mix RamFlash PMMA Primer with a spiral agitator, until the liquid is a uniform color, with no streaks present.

**Step 2:** Add the 100 g RamFlash PMMA Catalyst Powder to RamFlash PMMA Primer according to temperature table and mix with the same agitator for 2 minutes or until the powder is completely mixed throughout the liquid resin. The amount of Catalyst Powder must be adjusted according to the ambient temperature (see table).

*NOTE: RamFlash PMMA Primer is extremely fast curing. Excessive mixing time reduces the available working time for the Primer.*

**Step 3:** Apply RamFlash PMMA Primer with a nap roller or brush.

---

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# RamFlash PMMA Catalyst



**Powder Use to Initiate Cure of RamFlash PMMA Membrane & Primer**

## Description

RamFlash PMMA Catalyst is an initiator agent based on 50% dibenzoyl peroxide to induce the cure of RamFlash PMMA Membrane and RamFlash PMMA Primer.

## Uses

RamFlash PMMA Catalyst 300 g bag to be used with RamFlash PMMA Membrane and RamFlash PMMA Catalyst 100 g bag to be used with RamFlash PMMA Primer.

## Storage

Always store in cool and dry location. Do not store in direct sunlight or in temperatures below 35°F (1.7°C) or above 80°F (27°C). Approximate shelf life 36 months with proper storage. Store separately from the other products.

## Application

Refer to RamFlash PMMA Primer and Membrane Installation Instructions.



100 g plastic bag  
300 g plastic bag

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# Ram 203

## Modified Bitumen Medium-Duty Protection Course



### Description

Ram 203 is a SBS polymer-modified, fiberglass reinforced asphalt membrane with sanded surfaces, top and bottom to create a medium-duty protection course.

### Uses

Ram 203 can be used as a medium-duty protection course for RamTough 250, RamTough KLB-100 and torch down applications.

### Coverage

159 sq ft



### Properties

Description	Measurement	Test Method
Thickness	2.2 mm/86 mils	
Reinforcement	Fiberglass	
Max. Load at 0±3.6°F (lbf/in)	91 (15.9 kN/m)	ASTM D-6163
Elongation at 0±3.6°F (%)	4.5	ASTM D-6163
Max. Load at 73.4±3.6°F (lbf/in)	41 (7.2 kN/m)	ASTM D-6163
Elongation at 73.4±3.6°F (%)	3.7	ASTM D-6163
Tear Strength at 73.4±3.6°F (lbf)	73 (12.8 kN/m)	ASTM D-6163
Low Temp. Flex 0°F Max.	-15 (26.1°C)	ASTM D-6163
Dimensional Stability (%) Max.	<0.1	ASTM D-6163
Compound Stability Temp (°F)	250 (121°C)	ASTM D-6163



### Packaging

39"x49'  
90 lbs. per roll  
24 per pallet

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# Ram 306

## Modified Bitumen UV Stable Protection Course



### Description

Ram 306 is a SBS polymer-modified, polyester reinforced modified bitumen membrane with a ceramic granule surface protection. The granular surface creates a UV stable protection course. The high strength polyester reinforcement gives the composite membrane excellent tensile strength, toughness, puncture and tear resistance necessary to accommodate typical rooftop exposures.

### Uses

Ram 306 is used for a UV or extremely heavy duty for the protection course to protect RamTough 250 and RamTough KLB-100.

### Properties

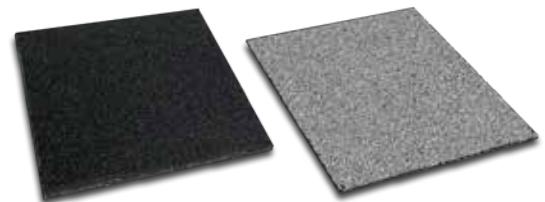
Description	Measurement			
	INITIAL RESULTS		AFTER CONDITIONING*	
	MD**	XD**	MD**	XD**
Load Strain @ 77°F				
Maximum Load (lbs/in.)	93	63	98	70
Elongation @ Max. Load (%)	56	61	48	54
Strain Energy @ Max. Load (inch-lbs/in2)	40	29	36	28
Load Strain @ 0°F				
Maximum Load (Lbs/in.)	127	98	117	83
Elongation @ Max. Load (%)	34	29	29	22
Strain Energy @ Max. Load (inch-lbs/in2)	36	28	29	17
Low Temperature Flexibility				
Initial -low temperature cracking does not occur	-15°F	-15°F	-	-
After heat conditioning at (158°F for 90 days)	-	-	-5°F	-5°F
Thickness (mils) (average value)	160	-	-	-
Tensile Tear Strength @ 77°F(lbf)	120	87	-	-
Moisture Content (%)	0.6	-	-	-
Water Absorption (%)	0.6	-	-	-
Dimensional Stability				
(Absolute Dimensional Change) (%)	< -0.5	< -0.5	-	-
Compound Stability				
Temperature at which flow formation observed	250°F	-	-	-

Meets or exceeds the requirements of ASTM D-6164 Type I Grade G Test Results per ASTM D-5147 \*158°F for 90 days

\*\*MD = machine direction, XD = cross direction

### Coverage

107 sq ft



Packaging

39"x33'  
98 lbs. per roll  
25 per pallet

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# SAFETY DATA SHEET

## IDENTIFICATION AND EMERGENCY INFORMATION

**PRODUCT NAME:** Black Pearl® Primer/Adhesive

**MANUFACTURER:**

BARRETT COMPANY  
2926 CHESTER AVE.  
CLEVELAND, OH 44114

**TOLL-FREE NUMBER:** (877) 514-5336  
**MAIN NUMBER:** (440) 605-1020  
**FAX NUMBER:** (440) 605-1120  
**EMERGENCY NUMBER:** (800) 424-9300  
**DATE PREPARED:** June 16, 2020

**Recommended Use:** A fluid applied waterproofing primer and adhesive used in conjunction with Black Pearl Sheet Membrane.

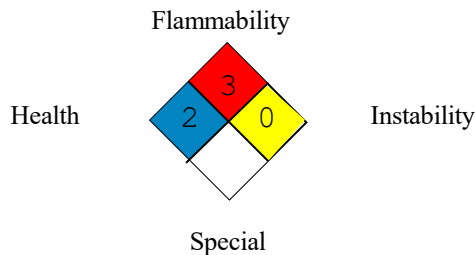
**Restrictions on Use:** For professional contractor use only.

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### 2: HAZARDS IDENTIFICATION

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HAZARD RATING  
4 – SEVERE  
3 – SERIOUS  
2 – MODERATE  
1 – SLIGHT  
0 – MINIMAL



NFPA 704: Health: 2 Flammability: 3 Instability: 0  
HMIS III: Health: 2 Flammability: 3 Physical Hazard: 0



**DANGER!** Flammable liquid and vapor. Category 2 (Flash point < 23°C (73°F) and initial boiling point > 35°C (95°F). Vapors are heavier than air. Vapors may travel across the ground and reach remote ignition sources causing a flashback fire danger.



**CAUTION!** Vapors and fumes can be harmful if inhaled



**CAUTION!** Aspiration Hazard Category 1 (highest). Aspiration toxicity includes severe acute effects such as chemical pneumonia, varying degrees of pulmonary injury or death following aspiration. Aspiration is the entry of a liquid or solid directly through the oral or nasal cavity, or indirectly from vomiting, into the trachea and lower respiratory system.

## Potential Health Effects:

### Inhalation:

Vapors and fumes from this material can be unpleasant and may affect the central nervous system causing dizziness, headache, nausea, or respiratory irritation. Hydrogen sulfide (H<sub>2</sub>S) gas can be present in the vapor. H<sub>2</sub>S concentrations of 700-1000 ppm can be extremely hazardous or fatal.

### Ingestion:

Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful. This material can get into the lungs during swallowing or vomiting. This results in lung inflammation and other lung injury.

### Skin contact:

Contact with unheated material may cause irritation or drying. Prolonged or repeated contact may dry the skin and cause irritation and burns.

### Eye contact:

Contact with unheated material may cause irritation.

## GHS Precautionary Statements:

H226: Flammable liquid and vapor

H305: May be harmful if swallowed and enters airways

H316: Causes mild skin irritation

H320: Causes eye irritation

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P261: Avoid breathing dust/fumes/gas/mist/vapors/spray.

P262: Do not get in eyes, on skin, or on clothing.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P302+352: IF ON SKIN: Wash with plenty of water

P304+340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.

P374: Fight fire with normal precautions from a reasonable distance

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## 3: COMPOSITION AND INFORMATION ON INGREDIENTS

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Waterproofing primer and adhesive

COMPONENT	CAS#	% WEIGHT
Asphalt	8052-42-4	40-75
Solvent Naphtha (Petroleum), Light Aliphatic Distillates	64742-89-8	10-40
Aliphatic Hydrocarbons (Stoddard)	8052-41-3	0-10
Attapulgite Clay	8031-18-3	1-10
Cellulose Fiber	9004-34-6	1-10
Surfactant	28701-67-9	0-1
Polymer – Trade Secrecy Registry No. NJTSRN-13-5		1-10

Asphalt products may contain trace amounts of hydrogen sulfide as a contaminant. This is not an intentional ingredient and will not be released unless the product is heated.

---

## 4: FIRST AID MEASURES

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### Eye Contact:

If this product comes in contact with the eyes, flush with plenty of water for at least 15 minutes and seek medical attention.



**Skin Contact:**

If this product comes in contact with skin, remove material with mineral oil or vegetable oil, then wash with soap and plenty of water. Get medical attention if irritation from contact persists. Skin contact with clothing saturated with solvent can cause severe burns. Contaminated clothing should be removed immediately and excess material wiped from the skin.

**Inhalation:**

If breathing difficulties, dizziness, or lightheadedness occur when working in areas with vapor concentration, victim should seek air free of vapors. If victim experiences continued breathing difficulties, administer oxygen until medical assistance can be rendered. If breathing stops, begin artificial respiration and seek immediate medical attention.

**Ingestion:**

If this product is swallowed, **DO NOT INDUCE VOMITING.** Seek immediate medical attention. **NOTE TO PHYSICIAN:** Perform gastric lavage in accordance with procedure for ingestion of petroleum products.

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**5: FIRE FIGHTING MEASURES**

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**Flammable liquid and vapor.**

**Flash Point (TCC):** 50°F Min.

**Explosive Limits:** LEL = 0.9% UEL = N.E.

**Extinguishing Media:**

Use foam, carbon dioxide (CO<sub>2</sub>), or dry chemical. Water may be used to cool containers exposed to heat.

**Fire-Fighting Instructions:**

Vapors are heavier than air. Vapors may travel across the ground and reach remote ignition sources causing a flashback fire danger. Minimize breathing vapors, gases or fumes of decomposition products. Use supplied-air breathing equipment for enclosed or confined spaces.

**Unusual Fire & Explosion Hazards:**

Above flash point, material will release flammable vapors which can burn or be explosive in confined spaces if ignited. Do not mix with strong oxidants such as liquid chlorine or concentrated oxygen.

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**6: ACCIDENTAL RELEASE MEASURES**

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Take proper precautions to ensure your own health and safety before attempting spill control or clean-up. Do not touch or walk through spilled material.

Shut off leaks if possible without personal risks. Eliminate sources of ignition. Add sand, earth, or other suitable absorbent to spill area. Transfer to suitable containers. Avoid sparks or hot metal surfaces.

Keep product out of sewers and waterways by diking or impounding. Advise authorities if product has entered or may enter sewers or waterways. Assure conformity with applicable government regulations.

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**7: HANDLING AND STORAGE**

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**Handling Procedures:**

Avoid open flames. Use non-sparking tools. To avoid fire or explosion, dissipate static.

Vapors are heavier than air and may travel along the ground or be moved by ventilation to locations distant from the point of material handling. To prevent ignition, avoid smoking, keep away from heat, open flames, and sources of static or electrical sparking. Use explosion proof motors and equipment. Tank trucks or other containers should be grounded and/or bonded when the material is transferred.

Toxic quantities of hydrogen sulfide (H<sub>2</sub>S) may present in storage tanks and bulk transport vessels which contain or have contained this material. Persons opening or entering these compartments should first determine if H<sub>2</sub>S is present. See Protective Equipment section. **DO NOT ATTEMPT RESCUE WITHOUT WEARING APPROVED SUPPLIED-AIR OR self-contained breathing equipment.**

Use with adequate ventilation. Minimize breathing vapor, mist, and fumes. Avoid prolonged and repeated contact with skin. Health Studies have shown that many petroleum hydrocarbons pose potential human health risks which vary from person to person. As a precaution, exposure to liquids, vapors, mists or fumes should be minimized. Do NOT take internally.

Adhere to good hygienic practices. Eating, drinking, and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking, and smoking. Remove contaminated clothing and protective equipment before entering eating areas.

#### **Storage Procedures:**

Store in accordance with local regulations, in a segregated and approved area. Keep in the original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials. **Do not transfer product to unmarked containers.** Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed. Do not reuse container.

Store and use away from heat, sparks, open flame or any other ignition source. Take precautionary measures against electrostatic discharges.

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## **8: EXPOSURE CONTROLS AND PERSONAL PROTECTION**

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Provide ventilation or other engineering controls to keep the airborne concentrations of vapor or mists below the exposure limits indicated below. All electrical equipment should comply with the National Electrical Code. An emergency eye wash station and safety shower should be located near the work-station.

#### **Exposure Guidelines:**

<b>Hazardous Components</b>	<b>CAS #</b>	<b>OSHA PEL: TWA</b>	<b>OSHA TLV: TWA</b>
Asphalt	8052-42-4	N.E.	.5mg/m <sup>3</sup>
Solvent Naphtha (Petroleum), Light Aliphatic Distillates	64742-89-8	300 ppm	300 ppm
Aliphatic Hydrocarbons (Stoddard)	8052-41-3	500 ppm	100 ppm
Surfactant	28701-67-9	N.E.	N.E.

N.E. = Not Established

OSHA = Occupational Safety and Health Administration

ACGIH = American Conference of Governmental Industrial Hygiene

PEL = Permissible Exposure Limits

TWA = Time Weighted Average

TLV = Threshold Limit Value

#### **Respiratory Protection:**

Use supplied-air respirator in confined areas or when vapors exceed exposure guidelines.

#### **Ventilation:**

Local Exhaust: In enclosed areas.

Mechanical: In enclosed areas.

**Eye Protection:**

Safety glasses or face shield for liquid.

**Protective Gloves:**

Solvent impervious gloves.

**Other Protective Clothing Equipment:**

Long sleeves and impervious clothing to protect from splashing.

**Work/Hygienic Practices:**

See Section 7.




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**9: PHYSICAL AND CHEMICAL PROPERTIES**


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<b>Appearance and Odor:</b>	Brown to Black Viscous Liquid. Petroleum odor
<b>Vapor Pressure (mm Hg @ 20°C Volatiles):</b>	>5
<b>Boiling Point °F Volatiles:</b>	240-300°
<b>Evaporation Rate (Butyl Acetate = 1) @ 77°F:</b>	N.D.
<b>Melting Point °F (Ring &amp; Ball):</b>	N/A
<b>Vapor Density (Air=1) @ 20°C Volatiles:</b>	>3.5
<b>Solubility in water:</b>	Insoluble
<b>Flash Point °F (Closed Cup):</b>	50°F Min.
<b>Specific Gravity (H<sub>2</sub>O = 1):</b>	N.D.

---

**10: STABILITY AND REACTIVITY**


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**Stability:**

Stable

**Conditions to avoid:**

Keep away from heat, sparks, open flames and strong oxidizing agents. Auto-ignition temperature unknown.

**Incompatible Materials:**

Strong acids, alkalies, and oxidizers.

**Hazardous Decomposition or Byproducts:**

Combustion: carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), sulfur oxides (SO<sub>x</sub>), nitrogen oxides (NO<sub>x</sub>), hydrogen sulfide (H<sub>2</sub>S), smoke, fumes and/or unburned hydrocarbons.

**Hazardous Polymerization:**

Not expected to occur.

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**11: TOXICOLOGICAL INFORMATION**


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Product may cause respiratory irritation, headache, dizziness, nausea and vomiting. Prolonged or repeated contact with skin may cause dermatitis.

Carcinogenicity: NTP: No IARC Monograph: No OSHA Regulated: No

## ADDITIONAL HEALTH DATA:

### ASPHALT:

No association has been established between industrial exposure to petroleum asphalt and cancer in humans. The International Agency for Research on Cancer (IARC) has recently reviewed the carcinogenic potential of asphalts. They concluded that there was insufficient evidence that undiluted, air-refined asphalt was carcinogenic to animals, while there was only limited evidence that steam-refined asphalts were carcinogenic to animals. The asphalt cement used in this product is straight-run asphalt cement, not steam-refined or oxidized asphalt. Additionally, there was insufficient evidence to conclude that asphalts were carcinogenic to human beings. Studies in which mice were exposed to a variety of whole asphalts did not result in any increased cancer rate; mice exposed to asphalts diluted with hydrocarbon solvents had increased incidence of certain types of cancer. Brief or intermittent skin contact with this asphalt product is not expected to produce any serious effects. While normal handling of this product is not likely to cause cancer in humans, skin contact and breathing of mists, fumes, or vapors should be reduced to a minimum. We strongly recommend that the precautions outlined in this SDS be followed when handling this material.

### SOLVENT:

Hydrocarbon solvents derived from petroleum may cause irritation when in contact with eyes and skin. Prolonged or repeated contact with skin can cause dermatitis. Systemic effects of these solvents are respiratory tract irritation, central nervous system depression (narcosis) in high concentration, nausea, vomiting, and possible damage to liver and kidneys. No known studies have associated these solvents with carcinogenic activity.

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## 12: ECOLOGICAL INFORMATION

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EPA Hazard Classification Code:

Acute Hazard: \_\_\_\_\_ Chronic Hazard: \_\_\_\_\_ Fire Hazard: \_\_\_\_\_ Pressure Hazard: \_\_\_\_\_

Reactive Hazard: \_\_\_\_\_ Not Applicable: X

Ecotoxicity effects:

Product can foul shoreline and damage plant life. This product is not expected to cause any acute or chronic toxicity to aquatic organisms due to its extremely low water solubility.

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## 13: DISPOSAL CONSIDERATIONS

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**Material Disposal Instructions:**

Recover or recycle if possible. Recovered non-usable material may be regulated by US EPA as a hazardous waste due to its ignitibility.

Do not dispose into the environment, in drains or in water courses. Waste product should not be allowed to contaminate soil or water. Dispose of in accordance with local, state and federal regulations.

**Container Disposal Instructions:**

Drain container thoroughly. After draining, vent in a safe place away from sparks and fire. Refer to Section 7 before handling the product or containers. Residues may cause an explosion hazard. Do not puncture, cut or weld uncleaned drums. Send to a drum or metal recycler.



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**14:****TRANSPORT INFORMATION**

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The descriptions shown may not apply to all shipping situations. Consult 49 CFR, or appropriate regulations, for additional description requirements.

Not DOT regulated in containers of less than 119 gallons.

**DOT Shipping Name:** Cutback  
**DOT Label Information:** Flammable liquid  
**DOT Hazard Class:** 3  
**DOT ID Number:** UN-1999



**DOT Packing Group:** II

**IMDG:**

Identification number: UN 1999  
Proper shipping name: CUTBACK  
Class I Division: 3  
Packing group: II  
Marine pollutant: Not a DOT "Marine Pollutant" per 49 CFR 171.8.

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**15:****REGULATORY INFORMATION**

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**SARA TITLE III-** EPA Regulation 40 CFR 302 (CERCLA Section 102); CFR 355 (SARA Section 301-304); CFR 372 (SARA Section 311-313)

This product contains the following chemicals subject to the reporting requirements of SARA 313 and 40 CFR 372:

	<b>CAS NUMBER</b>	<b>WEIGHT %</b>	<b>REPORTABLE QUANTITY</b>
Xylene	1330-20-7	< .1	100 lbs.
Ethyl Benzene	100-41-4	< .02	1,000 lbs.
Benzene	71-43-2	< .01	10 lbs.

**EPA HAZARD CLASSIFICATION:** Acute Hazard/Chronic Hazard/Fire Hazard/Pressure Hazard/Reactive Hazard:  
Fire Hazard, Acute Health Hazard

Right to Know (RTK) Asphalt is cited on the follow: MA RTK (for fumes), NJ RTK (Substance #0170), PA RTK.  
Naphtha solvent is cited on the following lists: MA, RTK, NJ RTK (Substance #0518), PA RTK.  
Stoddard Solvent is cited on the following lists: MA RTK, NJ RTK (Substance # 1736), PA RTK.  
Celulose Fiber is cited on the following lists: MA RTK, PA RTK.

California Prop 65: No ingredients listed

**GOVERNMENTAL INVENTORIES:** All components are listed in the U.S. TOSCA, Canadian DSL, Australian AICS, European EINECS, Korean KECL, and Philippines PICCS Inventories.

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**16:**

**OTHER INFORMATION**

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Some asphalt contains sulfur compounds which may form hydrogen sulfide (H<sub>2</sub>S) when heated. The rotten eggs odor of H<sub>2</sub>S is unreliable as an indicator of concentration because it may be entirely masked by the odor of the asphalt. Signs and symptoms of overexposure to H<sub>2</sub>S include respiratory tract irritation, headaches, dizziness, nausea, gastrointestinal disturbance, coughing, a sensation of dryness and pain in the nose, throat and chest, confusion and unconsciousness. H<sub>2</sub>S concentrations of 700-1000 ppm can be extremely hazardous or fatal.

NFPA 704 Rating (Health, Flammability, Instability): 2, 3, 0

HMIS III Rating (Health, Flammability, Physical Hazard): 2, 3, 0

**Revision Statement:**

This Safety Data sheet has been revised to update Section 15.

Supersedes: January 3, 2018

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# SAFETY DATA SHEET

## IDENTIFICATION AND EMERGENCY INFORMATION

**PRODUCT NAME:** BLACK PEARL BUTYL TAPE

**MANUFACTURER:** BARRETT COMPANY CHEMTREC

**EMERGENCY**

33 STONE HOUSE ROAD  
MILLINGTON, NJ 07946-0421

**TELEPHONE NUMBER:** 800-424-9300

**TELEPHONE NUMBER FOR  
INFORMATION:** 800-647-0100

**DATE PREPARED:** October 4, 2017

**Recommended Use:** A component part of commercial waterproofing and roofing systems

**Restrictions on Use:** Should only be used by a Barrett Approved Contractor

## HAZARDS IDENTIFICATION

**Classification of the substance or mixture:**

GHS08 Health hazard  
Carc. 1B H350 May cause cancer.

**Label elements:**

**GHS label elements:** The product is classified and labeled according to the Globally Harmonized System (GHS).

**Hazard pictograms:** GHS08

**Signal word:** DANGER

**Hazard statements:** May cause cancer

**Precautionary statements:**

Wear protective gloves/protective clothing/eye protection/face protection.  
Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
IF exposed or concerned: Get medical advice/attention.  
Store locked up.  
Dispose of contents/container in accordance with local/regional/national/international regulations

**Classification system:**

**NFPA ratings (scale 0 - 4)**

**HMIS-ratings (scale 0 - 4)**

Health = 1

Fire = 1

Reactivity = 0

Health = 1

Fire = 1

Physical Hazard = 0

**Other hazards**

**Results of PBT and vPvB  
assessment**

**PBT:** Not applicable.

**vPvB:** Not applicable.



# SAFETY DATA SHEET

## IDENTIFICATION AND EMERGENCY INFORMATION

**PRODUCT NAME:** RamFlash PMMA - Fleece

**MANUFACTURER:**

BARRETT COMPANY  
2926 CHESTER AVE.  
CLEVELAND, OH 44114

**TOLL-FREE NUMBER:** (877) 514-5336

**MAIN NUMBER:** (440) 605-1020

**FAX NUMBER:** (440) 605-1120

**EMERGENCY NUMBER:** (800) 424-9300

**DATE PREPARED:** June 16, 2020

### 2 Hazard(s) identification

· **Classification of the substance or mixture:**

This product is not classified as hazardous according to the Globally Harmonized System (GHS).

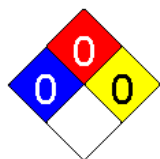
· **Label elements**

· **GHS label elements** Not Available

· **Signal word:** Not Available

· **Hazard statements:** Not Available

· **NFPA ratings (scale 0 - 4):**



Health = 0

Fire = 0

Reactivity = 0

### 3 Composition/information on ingredients

· **Chemical characterization: Substances**

· **CAS No. Description**

Nonhazardous material

· **Chemical characterization: Mixtures**

· **Description:** Mixture of the substances listed below with nonhazardous additions.

(Contd. on page 2)

CA



- **Dangerous components:** Not Available

#### 4 First-aid measures

- **General information:** No special measures required.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult doctor.
- **Most important symptoms and effects, both acute and delayed:**  
No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed:**  
No further relevant information available.

#### 5 Fire-fighting measures

- **Suitable extinguishing agents:**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture:** No further relevant information available.
- **Protective equipment:** No special measures required.

#### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures:** Not required.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:** Pick up mechanically.
- **Reference to other sections:**  
No dangerous substances are released.  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

#### 7 Handling and storage

- **Handling**
- **Precautions for safe handling:** No special measures required.
- **Information about protection against explosions and fires:** No special measures required.
- **Storage**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.
- **Specific end use(s):** No further relevant information available.

#### 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Components with limit values that require monitoring at the workplace:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- **Additional information:** The lists that were valid during the creation were used as basis.
- **Personal protective equipment**
- **General protective and hygienic measures:**  
The usual precautionary measures for handling chemicals should be followed.
- **Breathing equipment:** Not required.
- **Protection of hands:** Not required.
- **Material of gloves:**  
Protective gloves not normally required. People with sensitive skin may prefer to wear water-proof gloves, such as rubber or neoprene, to avoid skin contact.
- **Eye protection:** Not required.

## 9 Physical and chemical properties

· <b>Form:</b>	Solid
· <b>Color:</b>	White
· <b>Odor:</b>	Odorless
· <b>Odor threshold:</b>	Not determined.
· <b>pH-value:</b>	Not applicable.
· <b>Change in condition</b>	
<b>Melting point/Melting range:</b>	Undetermined.
<b>Boiling point/Boiling range:</b>	Not determined.
· <b>Flash point:</b>	Not applicable.
· <b>Flammability (solid, gaseous):</b>	Not determined.
· <b>Decomposition temperature:</b>	Not determined.
· <b>Auto igniting:</b>	Product is not selfigniting.
· <b>Danger of explosion:</b>	Product does not present an explosion hazard.
· <b>Explosion limits</b>	
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
· <b>Vapor pressure:</b>	Not applicable.
· <b>Density:</b>	Not determined.
· <b>Relative density:</b>	Not determined.
· <b>Vapor density:</b>	Not applicable.
· <b>Evaporation rate:</b>	Not applicable.
· <b>Solubility in / Miscibility with</b>	
<b>Water:</b>	Insoluble.
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.
· <b>Viscosity:</b>	
<b>Dynamic:</b>	Not applicable.
<b>Kinematic:</b>	Not applicable.
· <b>Solvent content:</b>	
<b>VOC content:</b>	0.00 % 0.0 g/l / 0.00 lb/gal

(Contd. on page 4)

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**Other information**

No further relevant information available.

**10 Stability and reactivity**

- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **Possibility of hazardous reactions:** No dangerous reactions known.
- **Conditions to avoid:** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

**11 Toxicological information**

- **Information on toxicological effects:**
- **Acute toxicity**
- **Specific symptoms in biological assay:** No further relevant information available.
- **Primary irritant effect**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**  
The product is not subject to classification according to internally approved calculation methods for preparations:  
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

· **Carcinogenic categories**· **IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

**12 Ecological information**

- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability:** No further relevant information available.
- **Behavior in environmental systems**
- **Bioaccumulative potential:** No further relevant information available.
- **Mobility in soil:** No further relevant information available.
- **Additional ecological information**
- **General notes:**  
Water hazard class 1 (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **Other adverse effects:** No further relevant information available.

### 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:** Smaller quantities can be disposed of with household waste.
- **Uncleaned packagings**
- **Recommendation:**  
Place in a sealed container and label as waste. Place in a safe area, and comply with all federal, state, provincial and local regulations for disposal.

### 14 Transport information

- |   |                 |
|---|-----------------|
| · <b>UN-Number</b>  |                 |
| · <b>DOT, TDG, ADN, IMDG, IATA</b>  | Not regulated   |
| · <b>UN proper shipping name</b>  |                 |
| · <b>DOT, TDG, ADN, IMDG, IATA</b>  | Not regulated   |
| · <b>Transport hazard class(es)</b>   |                 |
| · <b>DOT, TDG, ADN, IMDG, IATA</b>  |                 |
| · <b>Class</b>  | Not regulated   |
| · <b>Packing group</b>  |                 |
| · <b>DOT, TDG, IMDG, IATA</b>   | Not regulated   |
| · <b>Environmental hazards:</b>   |                 |
| · <b>Marine pollutant:</b>  | No              |
| · <b>Special precautions for user:</b>  | Not applicable. |
| · <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:</b> | Not applicable. |
| · <b>UN "Model Regulation":</b>   | Not regulated   |

### 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**

· **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

· **Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

· **TSCA (Toxic Substances Control Act):**

All ingredients are listed or exempted

· **Proposition 65**

· **Chemicals known to cause cancer:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

(Contd. on page 6)

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· <b>Chemicals known to cause reproductive toxicity for males:</b>
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None of the ingredients is listed.
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· <b>Chemicals known to cause developmental toxicity:</b>
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None of the ingredients is listed.
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· <b>Canadian substance listings</b>
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· <b>Canadian Domestic Substances List (DSL/NDSL):</b>
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All ingredients are listed.
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· <b>Canadian Ingredient Disclosure list (limit 0.1%):</b>
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None of the ingredients is listed.
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· <b>Canadian Ingredient Disclosure list (limit 1%):</b>
--

None of the ingredients is listed.
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- **GHS label elements** Not Available
- **Hazard pictograms** Not Available
- **Signal word** Not Available
- **Hazard statements** Not Available

## 16 Other information

**Date Prepared:** 7/30/2015

**Disclaimer:** The information and recommendations contained herein are to the best of Barrett Company's knowledge and belief, accurate and reliable as of the date issued. Barrett Company does not warrant or guarantee their accuracy or reliability, and Barrett Company shall not be liable for any loss or damage arising out of the use thereof. The information and recommendations are offered for the users' consideration and examination, and it is the user's responsibility to satisfy itself that they are suitable and complete for its particular use. It is also the users' responsibility to make certain that it is relying upon the most recent, updated, information and recommendations available from Barrett Company. The Environmental Information included above as well as the Hazardous Material Identification System (HMIS) and National Fire Protection Association (NFPA) ratings have been included by Barrett Company in order to provide additional health and hazard classification information. The ratings recommended are based upon the criteria supplied by the developers of these rating systems, together with Barrett Company's interpretation of the available data. We make no warranty as to the results to be obtained in using any material and, since conditions and methods of use are not under our control, we must necessarily disclaim all warranties of merchantability or fitness for any particular use as well as all liability resulting directly or indirectly from the use of any materials supplied by us.





# SAFETY DATA SHEET

## IDENTIFICATION AND EMERGENCY INFORMATION

**PRODUCT NAME:** RamFlash PMMA - Membrane

**MANUFACTURER:**

BARRETT COMPANY  
2926 CHESTER AVE.  
CLEVELAND, OH 44114

**TOLL-FREE NUMBER:** (877) 514-5336

**MAIN NUMBER:** (440) 605-1020

**FAX NUMBER:** (440) 605-1120

**EMERGENCY NUMBER:** (800) 424-9300

**DATE PREPARED:** June 16, 2020

### 2 Hazard(s) identification

· **Classification of the substance or mixture:**



GHS02 Flame

Flammable Liquids - Category 2

H225 Highly flammable liquid and vapour.



GHS07

Skin Irritation - Category 2

H315 Causes skin irritation.

Skin Sensitizer - Category 1

H317 May cause an allergic skin reaction.

Specific Target Organ Toxicity - Single Exposure -  
Category 3

H335 May cause respiratory irritation.

Eye Irritation - Category 2B

H320 Causes eye irritation.

· **Label elements**

· **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Signal word:** Danger

· **Hazard-determining components of labeling:**

methyl methacrylate

2-ethylhexyl acrylate

(Contd. on page 2)

CA

· **Hazard statements:**

- H225 Highly flammable liquid and vapour.  
 H315+H320 Causes skin and eye irritation.  
 H317 May cause an allergic skin reaction.  
 H335 May cause respiratory irritation.

· **Precautionary statements:**

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.  
 No smoking.  
 P235 Keep cool.  
 P240 Ground and bond container and receiving equipment.  
 P241 Use explosion-proof [electrical/ventilating/lighting] equipment.  
 P243 Take actions to prevent static discharges.  
 P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
 P264 Wash thoroughly after handling.  
 P271 Use only outdoors or in a well-ventilated area.  
 P272 Contaminated work clothing should not be allowed out of the workplace.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
 P304+P312 IF INHALED: Call a doctor if you feel unwell.  
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
 P337+P313 If eye irritation persists: Get medical advice/attention.  
 P362+P364 Take off contaminated clothing and wash it before reuse.  
 P370+P378 In case of fire: Use for extinction: CO<sub>2</sub>, sand, extinguishing powder.  
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
 P405 Store locked up.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **NFPA ratings (scale 0 - 4):**



Health = 1  
 Fire = 3  
 Reactivity = 0

### 3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

· **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**

80-62-6	methyl methacrylate	10-30% w/w *
103-11-7	2-ethylhexyl acrylate	10-30% w/w *
13463-67-7	Titanium Dioxide	10-13% w/w *
7328-22-5	Diethylene glycol butyl ether methacrylate	10-13% w/w *

\* Actual concentration ranges are withheld as a trade secret.

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(Contd. on page 3)

## 4 First-aid measures

- **After inhalation:**  
Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or doctor/physician if you feel unwell.
- **After skin contact:**  
If on skin (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a poison center or doctor if you feel unwell. If skin irritation or a rash occurs: Get medical advice/attention
- **After eye contact:**  
Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. If eye irritation persists get medical advice/attention.
- **After swallowing:** If symptoms persist consult doctor.
- **Most important symptoms and effects, both acute and delayed:**  
No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed:**  
No further relevant information available.

## 5 Fire-fighting measures

- **Suitable extinguishing agents:** CO<sub>2</sub>, sand, extinguishing powder. Do not use water.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards arising from the substance or mixture:** No further relevant information available.
- **Protective equipment:** No special measures required.

## 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures:**  
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:**  
Do not allow product to reach sewage system or any water course.  
Inform respective authorities in case of seepage into water course or sewage system.  
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Ensure adequate ventilation.  
Do not flush with water or aqueous cleansing agents
- **Reference to other sections:**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

## 7 Handling and storage

- **Handling**
- **Precautions for safe handling:**  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.
- **Information about protection against explosions and fires:**  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.

- **Storage**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
Keep receptacle tightly sealed.  
Store in cool, dry conditions in well sealed receptacles.
- **Specific end use(s):** No further relevant information available.

## 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

### Components with limit values that require monitoring at the workplace:

#### 80-62-6 methyl methacrylate

EL (Canada)	Short-term value: 100 ppm Long-term value: 50 ppm S
EV (Canada)	Short-term value: 100 ppm Long-term value: 50 ppm
PEL (USA)	Long-term value: 410 mg/m <sup>3</sup> , 100 ppm
REL (USA)	Long-term value: 410 mg/m <sup>3</sup> , 100 ppm
TLV (USA)	Short-term value: 410 mg/m <sup>3</sup> , 100 ppm Long-term value: 205 mg/m <sup>3</sup> , 50 ppm DSEN

- **Additional information:** The lists that were valid during the creation were used as basis.
- **Personal protective equipment**
- **General protective and hygienic measures:**  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing.  
Wash hands before breaks and at the end of work.  
Avoid contact with the skin.  
Avoid contact with the eyes and skin.
- **Breathing equipment:**  
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.  
Use suitable respiratory protective device in case of insufficient ventilation.
- **Protection of hands:**  
Synthetic gloves



Protective gloves

- **Eye protection:**



Tightly sealed goggles

## 9 Physical and chemical properties

· <b>Form:</b>	Liquid
· <b>Color:</b>	According to product specification
· <b>Odor:</b>	Characteristic
· <b>Odor threshold:</b>	Not determined.
· <b>pH-value:</b>	Not determined.
· <b>Change in condition</b>	
<b>Melting point/Melting range:</b>	Undetermined.
<b>Boiling point/Boiling range:</b>	101 °C
· <b>Flash point:</b>	10 °C
· <b>Flammability (solid, gaseous):</b>	Not applicable.
· <b>Ignition temperature:</b>	245 °C
· <b>Decomposition temperature:</b>	Not determined.
· <b>Auto igniting:</b>	Product is not selfigniting.
· <b>Danger of explosion:</b>	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· <b>Explosion limits</b>	
<b>Lower:</b>	0.8 Vol %
<b>Upper:</b>	12.5 Vol %
· <b>Vapor pressure at 20 °C:</b>	47 hPa
· <b>Density at 20 °C:</b>	1.23 g/cm <sup>3</sup>
· <b>Relative density:</b>	Not determined.
· <b>Vapor density:</b>	Not determined.
· <b>Evaporation rate:</b>	Not determined.
· <b>Solubility in / Miscibility with</b>	
<b>Water:</b>	Not miscible or difficult to mix.
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.
· <b>Viscosity:</b>	
<b>Dynamic at 20 °C:</b>	10338 mPas
<b>Kinematic:</b>	Not determined.
· <b>Solvent content:</b>	
<b>VOC content:</b>	32 g/l
· <b>Other information</b>	No further relevant information available.

## 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **Possibility of hazardous reactions:** No dangerous reactions known.
- **Conditions to avoid:** No further relevant information available.
- **Incompatible materials:** No further relevant information available.

(Contd. on page 6)

CA



- **Hazardous decomposition products:** No dangerous decomposition products known.

## 11 Toxicological information

- **Information on toxicological effects:**

- **Acute toxicity**

- **Specific symptoms in biological assay:** No further relevant information available.

- **Primary irritant effect**

- **on the skin:** Irritant to skin and mucous membranes.

- **on the eye:** No irritating effect.

- **Sensitization:** Sensitization possible through skin contact.

- **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

Irritant

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

80-62-6	methyl methacrylate	3
103-11-7	2-ethylhexyl acrylate	3
13463-67-7	Titanium Dioxide	2B
128-37-0	Butylated hydroxytoluene	3
111-76-2	2-butoxyethanol	3

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

## 12 Ecological information

- **Aquatic toxicity:** No further relevant information available.

- **Persistence and degradability:** No further relevant information available.

- **Behavior in environmental systems**

- **Bioaccumulative potential:** No further relevant information available.

- **Mobility in soil:** No further relevant information available.

- **Additional ecological information**

- **General notes:**

Water hazard class 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

- **Other adverse effects:** No further relevant information available.

## 13 Disposal considerations

- **Waste treatment methods**

- **Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

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CA

· **Uncleaned packagings**· **Recommendation:**

Place in a sealed container and label as waste. Place in a safe area, and comply with all federal, state, provincial and local regulations for disposal.

## 14 Transport information

· **UN-Number**

· **DOT, TDG, IMDG, IATA** UN1993

· **UN proper shipping name**

· **DOT** Flammable liquids, n.o.s. (Methyl methacrylate monomer, stabilized)

· **TDG** 1993 Flammable liquids, n.o.s. (Methyl methacrylate monomer, stabilized)

· **IMDG, IATA** FLAMMABLE LIQUID, N.O.S. (METHYL METHACRYLATE MONOMER, STABILIZED)

· **Transport hazard class(es)**· **DOT**

· **Class** 3 Flammable liquids

· **Label** 3

· **TDG, IMDG, IATA**



· **Class** 3 Flammable liquids

· **Label** 3

· **Packing group**

· **DOT, TDG, IMDG, IATA** II

· **Environmental hazards:** Not applicable.

· **Special precautions for user:** Warning: Flammable liquids

· **Danger code (Kemler):** -

· **EMS Number:** F-E, S-E

· **Stowage Category** A

· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:**

Not applicable.

· **Transport/Additional information:**· **DOT**

· **Quantity limitations** On passenger aircraft/rail: 60 L

On cargo aircraft only: 220 L

· <b>TDG</b> · <b>Excepted quantities (EQ)</b>	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· <b>IMDG</b> · <b>Limited quantities (LQ)</b> · <b>Excepted quantities (EQ)</b>	1L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· <b>UN "Model Regulation":</b>	UN 1993 FLAMMABLE LIQUIDS, N.O.S. (METHYL METHACRYLATE MONOMER, STABILIZED), 3, II

## 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**

- **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

- **Section 313 (Specific toxic chemical listings):**

80-62-6 methyl methacrylate

111-76-2 2-butoxyethanol

- **TSCA (Toxic Substances Control Act):**

All ingredients are listed or exempted

- **Proposition 65**

- **Chemicals known to cause cancer:**

None of the ingredients is listed.

- **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

- **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

- **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

- **Canadian substance listings**

- **Canadian Domestic Substances List (DSL/NDSL):**

All ingredients are listed.

- **Canadian Ingredient Disclosure list (limit 0.1%):**

None of the ingredients is listed.

- **Canadian Ingredient Disclosure list (limit 1%):**

80-62-6 methyl methacrylate

103-11-7 2-ethylhexyl acrylate

109-16-0 Triethylene glycol dimethacrylate

- **GHS label elements**

GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

(Contd. on page 9)

· **Hazard pictograms**



GHS02 GHS07

· **Signal word** Danger

· **Hazard-determining components of labeling:**

methyl methacrylate  
2-ethylhexyl acrylate

· **Hazard statements**

H225 Highly flammable liquid and vapour.  
H315+H320 Causes skin and eye irritation.  
H317 May cause an allergic skin reaction.  
H335 May cause respiratory irritation.

· **Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.  
No smoking.

P235 Keep cool.

P240 Ground and bond container and receiving equipment.

P241 Use explosion-proof [electrical/ventilating/lighting] equipment.

P243 Take actions to prevent static discharges.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P304+P312 IF INHALED: Call a doctor if you feel unwell.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

P370+P378 In case of fire: Use for extinction: CO<sub>2</sub>, sand, extinguishing powder.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

## 16 Other information

**Date Prepared:** 7/30/2015

**Disclaimer:** The information and recommendations contained herein are to the best of Barrett Company's knowledge and belief, accurate and reliable as of the date issued. Barrett Company does not warrant or guarantee their accuracy or reliability, and Barrett Company shall not be liable for any loss or damage arising out of the use thereof. The information and recommendations are offered for the users' consideration and examination, and it is the user's responsibility to satisfy itself that they are suitable and complete for its particular use. It is also the users' responsibility to make certain that it is relying upon the most recent, updated, information and recommendations available from Barrett Company. The Environmental Information included above as well as the Hazardous Material Identification System (HMIS) and National Fire Protection Association (NFPA) ratings have been included by Barrett Company in order to provide additional health and hazard classification information. The ratings recommended are based upon the criteria supplied by the developers of these rating systems, together with Barrett Company's interpretation of the available data. We make no warranty as to the results to be obtained in using any material and, since conditions and methods of use are not under our control, we must necessarily disclaim all warranties of merchantability or fitness for any particular use as well as all liability resulting directly or indirectly from the use of any materials supplied by us.

CA





# SAFETY DATA SHEET

## IDENTIFICATION AND EMERGENCY INFORMATION

**PRODUCT NAME:** RamFlash PMMA - Primer

**MANUFACTURER:**

BARRETT COMPANY  
2926 CHESTER AVE.  
CLEVELAND, OH 44114

**TOLL-FREE NUMBER:** (877) 514-5336

**MAIN NUMBER:** (440) 605-1020

**FAX NUMBER:** (440) 605-1120

**EMERGENCY NUMBER:** (800) 424-9300

**DATE PREPARED:** June 16, 2020

### 2 Hazard(s) identification

· **Classification of the substance or mixture:**



GHS02 Flame

Flammable Liquids - Category 2

H225 Highly flammable liquid and vapour.



GHS07

Skin Irritation - Category 2

H315 Causes skin irritation.

Eye Irritation - Category 2A

H319 Causes serious eye irritation.

Skin Sensitizer - Category 1

H317 May cause an allergic skin reaction.

Specific Target Organ Toxicity - Single Exposure -  
Category 3

H335 May cause respiratory irritation.

· **Label elements**

· **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Signal word:** Danger

· **Hazard-determining components of labeling:**

methyl methacrylate

2-ethylhexyl acrylate

tetramethylene dimethacrylate

(Contd. on page 2)

CA

· **Hazard statements:**

- H225 Highly flammable liquid and vapour.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H317 May cause an allergic skin reaction.
- H335 May cause respiratory irritation.

· **Precautionary statements:**

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P240 Ground and bond container and receiving equipment.
- P241 Use explosion-proof [electrical/ventilating/lighting] equipment.
- P242 Use non-sparking tools.
- P243 Take actions to prevent static discharges.
- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P264 Wash thoroughly after handling.
- P271 Use only outdoors or in a well-ventilated area.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P312 Call a poison center/doctor if you feel unwell.
- P321 Specific treatment (see on this label).
- P362+P364 Take off contaminated clothing and wash it before reuse.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P370+P378 In case of fire: Use for extinction: CO<sub>2</sub>, powder or water spray.
- P403+P233 Store in a well-ventilated place. Keep container tightly closed.
- P403+P235 Store in a well-ventilated place. Keep cool.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **NFPA ratings (scale 0 - 4):**



Health = 2  
Fire = 3  
Reactivity = 0

### 3 Composition/information on ingredients

· **Chemical characterization: Substances**

· **CAS No. Description**

80-62-6 methyl methacrylate

· **Identification number(s)**

· **EC number:** 201-297-1

· **Index number:** 607-035-00-6

· **Chemical characterization: Mixtures**

· **Description:** Mixture of the substances listed below with nonhazardous additions.

(Contd. on page 3)

CA

· <b>Dangerous components:</b>		
80-62-6	methyl methacrylate	60-100% w/w *
2082-81-7	tetramethylene dimethacrylate	≤10% w/w
3077-12-1	2,2'-[(4-methylphenyl)imino]bisethanol	1-5% w/w *
103-11-7	2-ethylhexyl acrylate	1-5% w/w *

\* Actual concentration ranges are withheld as a trade secret.

#### 4 First-aid measures

· **After inhalation:**

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or doctor/physician if you feel unwell.

· **After skin contact:**

Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation or a rash occurs: Get medical advice/attention.

· **After eye contact:**

Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. If eye irritation persists get medical advice/attention.

· **After swallowing:** Do not induce vomiting, Immediately call a poison center/ doctor.

· **Most important symptoms and effects, both acute and delayed:**

No further relevant information available.

· **Indication of any immediate medical attention and special treatment needed:**

No further relevant information available.

#### 5 Fire-fighting measures

· **Suitable extinguishing agents:** CO<sub>2</sub>, sand, extinguishing powder. Do not use water.

· **For safety reasons unsuitable extinguishing agents:** Water with full jet

· **Special hazards arising from the substance or mixture:** No further relevant information available.

· **Protective equipment:** No special measures required.

#### 6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures:**

Wear protective equipment. Keep unprotected persons away.

· **Environmental precautions:**

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

· **Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

· **Reference to other sections:**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## 7 Handling and storage

- **Handling**
- **Precautions for safe handling:**  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.
- **Information about protection against explosions and fires:**  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.
- **Storage**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
Keep receptacle tightly sealed.  
Store in cool, dry conditions in well sealed receptacles.
- **Specific end use(s):** No further relevant information available.

## 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

- **Components with limit values that require monitoring at the workplace:**

### 80-62-6 methyl methacrylate

EL (Canada)	Short-term value: 100 ppm Long-term value: 50 ppm S
EV (Canada)	Short-term value: 100 ppm Long-term value: 50 ppm
PEL (USA)	Long-term value: 410 mg/m <sup>3</sup> , 100 ppm
REL (USA)	Long-term value: 410 mg/m <sup>3</sup> , 100 ppm
TLV (USA)	Short-term value: 410 mg/m <sup>3</sup> , 100 ppm Long-term value: 205 mg/m <sup>3</sup> , 50 ppm DSEN

- **Additional information:** The lists that were valid during the creation were used as basis.
- **Personal protective equipment**
- **General protective and hygienic measures:**  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing.  
Wash hands before breaks and at the end of work.  
Avoid contact with the skin.  
Avoid contact with the eyes and skin.
- **Breathing equipment:** Use suitable respiratory protective device in case of insufficient ventilation.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

- **Material of gloves:**  
Nitrile rubber, NBR  
Natural rubber, NR

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· **Eye protection:**

Tightly sealed goggles

## 9 Physical and chemical properties

· <b>Form:</b>	Liquid
· <b>Color:</b>	According to product specification
· <b>Odor:</b>	Acrid
· <b>Odor threshold:</b>	Not determined.
· <b>pH-value:</b>	Not determined.
· <b>Change in condition</b>	
<b>Melting point/Melting range:</b>	-48 °C
<b>Boiling point/Boiling range:</b>	101 °C
· <b>Flash point:</b>	10 °C
· <b>Flammability (solid, gaseous):</b>	Not applicable.
· <b>Ignition temperature:</b>	430 °C
· <b>Decomposition temperature:</b>	Not determined.
· <b>Auto igniting:</b>	Product is not selfigniting.
· <b>Danger of explosion:</b>	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· <b>Explosion limits</b>	
<b>Lower:</b>	2.1 Vol %
<b>Upper:</b>	12.5 Vol %
· <b>Vapor pressure at 20 °C:</b>	47 hPa
· <b>Density at 20 °C:</b>	0.944 g/cm <sup>3</sup>
· <b>Relative density:</b>	Not determined.
· <b>Vapor density:</b>	Not determined.
· <b>Evaporation rate:</b>	Not determined.
· <b>Solubility in / Miscibility with</b>	
<b>Water at 20 °C:</b>	1.6 g/l
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.
· <b>Viscosity:</b>	
<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.
· <b>Solvent content:</b>	
<b>VOC content:</b>	54 g/l
· <b>Other information</b>	No further relevant information available.

CA

(Contd. on page 6)



## 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **Possibility of hazardous reactions:** No dangerous reactions known.
- **Conditions to avoid:** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

## 11 Toxicological information

- **Information on toxicological effects:**
- **Acute toxicity**

- **LD/LC50 values that are relevant for classification:**

### 80-62-6 methyl methacrylate

Oral LD50 7872 mg/kg (rat)

- **Specific symptoms in biological assay:** No further relevant information available.
- **Primary irritant effect**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** No irritating effect.
- **Sensitization:** Sensitization possible through skin contact.
- **Additional toxicological information:**  
The product shows the following dangers according to internally approved calculation methods for preparations:  
Irritant

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

80-62-6	methyl methacrylate	3
103-11-7	2-ethylhexyl acrylate	3

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

## 12 Ecological information

- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability:** No further relevant information available.
- **Behavior in environmental systems**
- **Bioaccumulative potential:** No further relevant information available.
- **Mobility in soil:** No further relevant information available.
- **Additional ecological information**
- **General notes:**  
Water hazard class 1 (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **Other adverse effects:** No further relevant information available.

## 13 Disposal considerations

- **Waste treatment methods**

- **Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- **Uncleaned packagings**

- **Recommendation:**

Place in a sealed container and label as waste. Place in a safe area, and comply with all federal, state, provincial and local regulations for disposal.

## 14 Transport information

- **UN-Number**

- **DOT, TDG, IMDG, IATA** UN1993

- **UN proper shipping name**

- **DOT** Flammable liquids, n.o.s. (Methyl methacrylate monomer, stabilized)
- **TDG** 1993 Flammable liquids, n.o.s. (Methyl methacrylate monomer, stabilized)
- **IMDG, IATA** FLAMMABLE LIQUID, N.O.S. (METHYL METHACRYLATE MONOMER, STABILIZED)

- **Transport hazard class(es)**

- **DOT**



- **Class** 3 Flammable liquids
- **Label** 3
- **TDG, IMDG, IATA**



- **Class** 3 Flammable liquids
- **Label** 3

- **Packing group**

- **DOT, TDG, IMDG, IATA** II

- **Environmental hazards:**

- **Marine pollutant:** No

- **Special precautions for user:**

Warning: Flammable liquids

- **Danger code (Kemler):** 339

- **EMS Number:** F-E, S-E

- **Stowage Category** B

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· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>DOT</b>	
· <b>Quantity limitations</b>	On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L
· <b>Hazardous substance:</b>	1000 lbs, 454 kg
· <b>TDG</b>	
· <b>Excepted quantities (EQ)</b>	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	1L
· <b>Excepted quantities (EQ)</b>	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· <b>UN "Model Regulation":</b>	UN 1993 FLAMMABLE LIQUIDS, N.O.S. (METHYL METHACRYLATE MONOMER, STABILIZED), 3, II

## 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**

### · **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

### · **Section 313 (Specific toxic chemical listings):**

80-62-6 methyl methacrylate

### · **TSCA (Toxic Substances Control Act):**

All ingredients are listed or exempted

### · **Proposition 65**

#### · **Chemicals known to cause cancer:**

None of the ingredients is listed.

#### · **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

#### · **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

#### · **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

### · **Canadian substance listings**

#### · **Canadian Domestic Substances List (DSL/NDSL):**

All ingredients are listed.

#### · **Canadian Ingredient Disclosure list (limit 0.1%):**

None of the ingredients is listed.

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· **Canadian Ingredient Disclosure list (limit 1%):**

80-62-6	methyl methacrylate
2082-81-7	tetramethylene dimethacrylate
103-11-7	2-ethylhexyl acrylate

· **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**



GHS02 GHS07

· **Signal word Danger**

· **Hazard-determining components of labeling:**

methyl methacrylate  
2-ethylhexyl acrylate  
tetramethylene dimethacrylate

· **Hazard statements**

H225 Highly flammable liquid and vapour.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H317 May cause an allergic skin reaction.  
H335 May cause respiratory irritation.

· **Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P240 Ground and bond container and receiving equipment.

P241 Use explosion-proof [electrical/ventilating/lighting] equipment.

P242 Use non-sparking tools.

P243 Take actions to prevent static discharges.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312 Call a poison center/doctor if you feel unwell.

P321 Specific treatment (see on this label).

P362+P364 Take off contaminated clothing and wash it before reuse.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

P370+P378 In case of fire: Use for extinction: CO<sub>2</sub>, powder or water spray.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P403+P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

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CA

## 16 Other information

**Date Prepared:** 7/30/2015

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CA





# SAFETY DATA SHEET

## IDENTIFICATION AND EMERGENCY INFORMATION

**PRODUCT NAME:** RamFlash PMMA - Catalyst

**MANUFACTURER:**

BARRETT COMPANY  
2926 CHESTER AVE.  
CLEVELAND, OH 44114

**TOLL-FREE NUMBER:** (877) 514-5336

**MAIN NUMBER:** (440) 605-1020

**FAX NUMBER:** (440) 605-1120

**EMERGENCY NUMBER:** (800) 424-9300

**DATE PREPARED:** June 16, 2020

### 2 Hazard(s) identification

· **Classification of the substance or mixture:**



GHS02 Flame

Organic Peroxides – Type D      H242 Heating may cause a fire.



GHS08 Health hazard

Reproductive Toxicity - Category 2   H361 Suspected of damaging fertility or the unborn child.



GHS07

Eye Irritation - Category 2A      H319 Causes serious eye irritation.

Skin Sensitizer - Category 1      H317 May cause an allergic skin reaction.

· **Label elements**

· **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Signal word:** Danger

· **Hazard-determining components of labeling:**

dicyclohexyl phthalate

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CA

dibenzoyl peroxide

· **Hazard statements:**

H242 Heating may cause a fire.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H361 Suspected of damaging fertility or the unborn child.

· **Precautionary statements:**

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.  
No smoking.

P234 Keep only in original packaging.

P240 Ground and bond container and receiving equipment.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash thoroughly after handling.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 If on skin: Wash with plenty of water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

P370+P378 In case of fire: Use for extinction: CO<sub>2</sub>, powder or water spray.

P403+P235 Store in a well-ventilated place. Keep cool.

P410 Protect from sunlight.

P411 Store at temperatures not exceeding 30°C.

P420 Store separately.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **NFPA ratings (scale 0 - 4):**



Health = 2

Fire = 3

Reactivity = 2

The substance possesses oxidizing properties.

### 3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

· **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**

84-61-7	dicyclohexyl phthalate	30-60% w/w *
94-36-0	dibenzoyl peroxide	30-60% w/w *

\* Actual concentration ranges are withheld as a trade secret.

## 4 First-aid measures

- **After inhalation:**  
Supply fresh air and to be sure call for a doctor.  
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:**  
Wash with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation or a rash occurs: Get medical advice/attention.
- **After eye contact:**  
Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. If eye irritation persists get medical advice/attention.
- **After swallowing:** Call a poison center/doctor if you feel unwell. Rinse mouth.
- **Most important symptoms and effects, both acute and delayed:**  
No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed:**  
No further relevant information available.

## 5 Fire-fighting measures

- **Suitable extinguishing agents:**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards arising from the substance or mixture:**  
In certain fire conditions, traces of other toxic gases cannot be excluded.
- **Protective equipment:** Wear self-contained respiratory protective device.

## 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures:**  
Ensure adequate ventilation  
Keep away from ignition sources  
Wear protective clothing.  
Wear protective equipment. Keep unprotected persons away.  
Use respiratory protective device against the effects of fumes/dust/aerosol.
- **Environmental precautions:** Do not allow product to reach sewage system or any water course.
- **Reference to other sections:**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

## 7 Handling and storage

- **Handling**
- **Precautions for safe handling:** No special precautions are necessary if used correctly.
- **Information about protection against explosions and fires:** No special measures required.
- **Storage**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:**  
Store away from foodstuffs.  
Do not store together with oxidizing and acidic materials as well as heavy-metal compounds.
- **Further information about storage conditions:** Keep receptacle tightly sealed.

(Contd. on page 4)

- **Specific end use(s):** No further relevant information available.

## 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

- **Components with limit values that require monitoring at the workplace:**

### 94-36-0 dibenzoyl peroxide

EL (Canada)	Long-term value: 5 mg/m <sup>3</sup>
EV (Canada)	Long-term value: 5 mg/m <sup>3</sup>
PEL (USA)	Long-term value: 5 mg/m <sup>3</sup>
REL (USA)	Long-term value: 5 mg/m <sup>3</sup>
TLV (USA)	Long-term value: 5 mg/m <sup>3</sup>

- **Additional information:** The lists that were valid during the creation were used as basis.
- **Personal protective equipment**
- **General protective and hygienic measures:**  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing.  
Wash hands before breaks and at the end of work.  
Avoid contact with the eyes.  
Avoid contact with the eyes and skin.
- **Breathing equipment:** Use suitable respiratory protective device in case of insufficient ventilation.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

- **Material of gloves:**  
Fluorocarbon rubber (Viton)  
Nitrile rubber, NBR  
Natural rubber, NR
- **Eye protection:**



Tightly sealed goggles

## 9 Physical and chemical properties

- |                                     |                 |
|-------------------------------------|-----------------|
| · <b>Form:</b>                      | Powder          |
| · <b>Color:</b>                     | White           |
| · <b>Odor:</b>                      | Characteristic  |
| · <b>Odor threshold:</b>            | Not determined. |
| · <b>pH-value:</b>                  | Not applicable. |
| · <b>Change in condition</b>        |                 |
| <b>Melting point/Melting range:</b> | Undetermined.   |
| <b>Boiling point/Boiling range:</b> | Not determined. |

(Contd. on page 5)

CA

· <b>Flash point:</b>	Not applicable.
· <b>Flammability (solid, gaseous):</b>	May cause fire.
· <b>Decomposition temperature:</b>	60 °C (SADT)
· <b>Auto igniting:</b>	Product is not selfigniting.
· <b>Danger of explosion:</b>	Not determined.
· <b>Explosion limits</b>	
Lower:	Not determined.
Upper:	Not determined.
· <b>Vapor pressure at 20 °C:</b>	1 hPa
· <b>Density at 20 °C:</b>	1.23 g/cm <sup>3</sup>
· <b>Relative density:</b>	Not determined.
· <b>Vapor density:</b>	Not applicable.
· <b>Evaporation rate:</b>	Not applicable.
· <b>Solubility in / Miscibility with Water:</b>	Insoluble.
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.
· <b>Viscosity:</b>	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
· <b>Other information</b>	No further relevant information available.

## 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**  
To avoid thermal decomposition do not overheat.
- **Possibility of hazardous reactions:** Reacts with reducing agents.
- **Conditions to avoid:** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

## 11 Toxicological information

- **Information on toxicological effects:**
- **Acute toxicity**
- **Specific symptoms in biological assay:** No further relevant information available.
- **Primary irritant effect**
- **on the skin:** No irritant effect.
- **on the eye:** Irritating effect.
- **Sensitization:** Sensitization possible through skin contact.
- **Additional toxicological information:**  
The product shows the following dangers according to internally approved calculation methods for preparations:  
Irritant

(Contd. on page 6)

CA



· **Carcinogenic categories**· **IARC (International Agency for Research on Cancer)**

94-36-0 dibenzoyl peroxide

3

· **NTP (National Toxicology Program)**

None of the ingredients is listed.



## 12 Ecological information

- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability:** No further relevant information available.
- **Behavior in environmental systems**
- **Bioaccumulative potential:** No further relevant information available.
- **Mobility in soil:** No further relevant information available.
- **Other adverse effects:** No further relevant information available.

## 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**  
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings**
- **Recommendation:**  
Place in a sealed container and label as waste. Place in a safe area, and comply with all federal, state, provincial and local regulations for disposal.

## 14 Transport information

- **UN-Number**
  - **DOT, TDG, IMDG, IATA** UN3106
  - **UN proper shipping name**
  - **DOT** Organic peroxide type D, solid
  - **TDG** 3106 Organic peroxide type D, solid
  - **IMDG** ORGANIC PEROXIDE TYPE D, SOLID, MARINE POLLUTANT
  - **IATA** ORGANIC PEROXIDE TYPE D, SOLID
  - **Transport hazard class(es)**
  - **DOT**
- 

- **Class** 5.2 Organic peroxides

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· **Label** 5.2  
 · **TDG, IMDG**



· **Class** 5.2 Organic peroxides  
 · **Label** 5.2

· **IATA**



· **Class** 5.2 Organic peroxides  
 · **Label** 5.2

· **Packing group**  
 · **DOT** II

· **Environmental hazards:**  
 · **Marine pollutant:** Yes  
 Symbol (fish and tree)  
 · **Special marking (TDG):** Symbol (fish and tree)

· **Special precautions for user:** Warning: Organic peroxides  
 · **EMS Number:** F-J,S-R  
 · **Stowage Category** D  
 · **Stowage Code** SW1 Protected from sources of heat.  
 · **Segregation Code** SG35 Stow "separated from" acids.  
 SG36 Stow "separated from" alkalis.

· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:** Not applicable.

· **Transport/Additional information:**  
 · **DOT**  
 · **Quantity limitations** On passenger aircraft/rail: 5 kg  
 On cargo aircraft only: 10 kg  
 · **Remarks:** Special marking with the symbol (fish and tree).

· **TDG**  
 · **Excepted quantities (EQ)** Code: E0  
 Not permitted as Excepted Quantity

· **IMDG**  
 · **Limited quantities (LQ)** 500 g  
 · **Excepted quantities (EQ)** Code: E0  
 Not permitted as Excepted Quantity

· **UN "Model Regulation":** UN 3106 ORGANIC PEROXIDE TYPE D, SOLID, 5.2

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## 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**

- **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

- **Section 313 (Specific toxic chemical listings):**

94-36-0 dibenzoyl peroxide

- **TSCA (Toxic Substances Control Act):**

All ingredients are listed or exempted

- **Proposition 65**

- **Chemicals known to cause cancer:**

None of the ingredients is listed.

- **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

- **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

- **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

- **Canadian substance listings**

- **Canadian Domestic Substances List (DSL/NDSL):**

All ingredients are listed.

- **Canadian Ingredient Disclosure list (limit 0.1%):**

None of the ingredients is listed.

- **Canadian Ingredient Disclosure list (limit 1%):**

94-36-0 dibenzoyl peroxide

- **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms**



GHS02 GHS07 GHS08

- **Signal word** Danger

- **Hazard-determining components of labeling:**

dicyclohexyl phthalate

dibenzoyl peroxide

- **Hazard statements**

H242 Heating may cause a fire.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H361 Suspected of damaging fertility or the unborn child.

- **Precautionary statements**

P201 Obtain special instructions before use.

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P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P234	Keep only in original packaging.
P240	Ground and bond container and receiving equipment.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	If on skin: Wash with plenty of water.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P370+P378	In case of fire: Use for extinction: CO <sub>2</sub> , powder or water spray.
P403+P235	Store in a well-ventilated place. Keep cool.
P410	Protect from sunlight.
P411	Store at temperatures not exceeding 30°C.
P420	Store separately.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

## 16 Other information

**Date Prepared:** 7/30/2015

**Disclaimer:** The information and recommendations contained herein are to the best of Barrett Company's knowledge and belief, accurate and reliable as of the date issued. Barrett Company does not warrant or guarantee their accuracy or reliability, and Barrett Company shall not be liable for any loss or damage arising out of the use thereof. The information and recommendations are offered for the users' consideration and examination, and it is the user's responsibility to satisfy itself that they are suitable and complete for its particular use. It is also the users' responsibility to make certain that it is relying upon the most recent, updated, information and recommendations available from Barrett Company. The Environmental Information included above as well as the Hazardous Material Identification System (HMIS) and National Fire Protection Association (NFPA) ratings have been included by Barrett Company in order to provide additional health and hazard classification information. The ratings recommended are based upon the criteria supplied by the developers of these rating systems, together with Barrett Company's interpretation of the available data. We make no warranty as to the results to be obtained in using any material and, since conditions and methods of use are not under our control, we must necessarily disclaim all warranties of merchantability or fitness for any particular use as well as all liability resulting directly or indirectly from the use of any materials supplied by us.



Between the World  
and The Weather  
Since 1928

## BLACK PEARL WATERPROOFING LIMITED WARRANTY

**WARRANTY:** THE BARRETT COMPANY, INC. (Barrett), an Ohio Limited Liability Corporation, does hereby warrant to the building owner (Owner) that subject to the terms, conditions and limitations stated herein, its Barrett Black Pearl Membrane Components (the Product), which has been installed by a Barrett authorized applicator, will remain in a watertight condition for a period of Twenty (20) years from the date of completion indicated hereinafter.

In the event of failure of the Product to function as warranted, whether caused by the Approved Applicator's workmanship or defective product, Barrett will make or cause to be made such repairs and maintenance necessary to enable the Product to perform as herein warranted, including the removal and replacement of any material covering the herein membrane Purchased from The Barrett Company. Barrett's repair obligations over the life of this warranty are limited to the Owner's original cost of the product.

**CONDITIONS OF THE WARRANTY:** Barrett's obligations to repair and maintain the Product under this warranty shall not be in force or effect unless a) Barrett is notified promptly and confirmation, in writing, is sent by registered or certified mail, of any failure of the Product covered by this warranty within thirty (30) days following notice of such failure, actual or constructive, b) the Product is installed in accordance with Barrett's written specifications by a Barrett authorized applicator, c) the Applicator and material suppliers have been paid in full for all bills for installation, product and services; d) no alteration or repairs are made without prior written approval of Barrett and acceptance of the work; and e) if a warranty claim is filed and investigation determines the claim is not valid or covered under this warranty. In the event the claim is not covered by the Warranty, the reasonable costs incurred by Barrett in so determining shall invoice the owner.

### LIABILITIES EXCLUDED FROM COVERAGE OF WARRANTY:

**A. Barrett assumes no liability for damage to 1) the deck or other base over which the Product is installed, 2) the building structure or the interior contents, 3) any other property or person 4) nor any incidental or consequential damages including but not limited to mold, bacterial and all other toxicity or pollution claims, 5) structural calculations or dew point calculations.**

**B. Barrett assumes no liability for any failure of the Product resulting from 1) natural disasters and acts of God, including, without limitation, floods, lightning, hurricanes, winds in excess of 70 mph, earthquakes, earth tremors, tornados, gales, hail and fire of any origin or causes, 2) structural defects of the building on which the Product is installed, 3) improper application or failure of any component underlying the Product or associated metal work, 4) changes in the original principal usage to which the building is put, unless approved in advance, in writing by Barrett, 5) the erection or construction of any additional installation in or through the Product prior to or after the completion date, unless done in the manner prescribed and accepted by Barrett, 6) failure of Owner or lessee to use reasonable care in maintaining the Product, including acts of negligence, vandalism, abuse or misuse; and 7) chemical attack from industrial or environmental contaminants which have not been first approved and accepted, in writing, from Barrett, 8) water entry from pitch pans, adjoining materials or surfaces which are not waterproofed with Barrett products, 9) any damage or loss due to animal, microbial, mold, algae, mildew, spores, mycotoxins, virus or other invasive forces, 10) deterioration of flashings or membrane where water has been allowed to enter behind flashing from sources other than thru the Product or base flashing; and 11) the Design of the end use.**

### C. SPECIAL CONDITIONS:

**ACCESS:** During the term of this warranty, Barrett, its agents or employees shall have free access to the installation area during regular business hours.

**WAIVER:** Barrett's failure at any time to enforce any of the terms or conditions, stated herein, shall not be construed to be a waiver of such provisions.

Barrett shall have the sole and exclusive right of good faith determination of warranty applicability.

**ASSIGNABILITY:** This warranty shall accrue only to the Owner named herein.

**CONVERSION:** Should the Owner fail to properly execute and return a signed copy of this document within ninety (90) days of issuance date this warranty offer shall expire and will be superseded with Barrett's Standard FIVE (5) year "Materials Only" warranty which also includes the warranty provision;

**NO OTHER WARRANTY: BARRETT MAKES NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY EXCEPT AS PROVIDED HEREIN. BARRETT WILL NOT BE LIABLE OR OBLIGATED FOR ANY LOSS OR DAMAGE, CONSEQUENTIAL OR INCIDENTAL, OR OTHER DAMAGE ARISING DIRECTLY OR INDIRECTLY IN RESPECT TO BARRETT MATERIALS OR THE USE OR FAILURE THEREOF, WHERE BASED ON BREACH OF WARRANTY OR CONTRACT, OR NEGLIGENCE. BOTH PARTIES CONSENT TO THE CONTRACT LANGUAGE HEREIN AND NEITHER PARTY SHALL BE PREJUDICED BY ANY LANGUAGE AMBIGUITY DUE TO AUTHORSHIP. THIS WARRANTY SHALL BE THE SOLE AND EXCLUSIVE REMEDY OF THE OWNER.**

**NO REPRESENTATIVE OF BARRETT HAS AUTHORITY TO MAKE ANY REPRESENTATION OR PROMISES EXCEPT AS STATED HEREIN.**

Name of Building:  
Address of Building:

Project#:

Owner's Name:  
Owner's Address:

Name of Approved Applicator:  
Address of Approved Applicator:

**DESCRIPTION OF DECK WARRANTED**

Date Work Began:

Date Work Completed:

Warranty Expiration Date:

Type of Deck:

Slope of Deck:

Area of Deck Under Warranty:

Specification No.:

Insulation Manufacturer, Type:

Thickness and psi of Insulation:

Type of Covering:

Weight per Square Foot:

Use of Deck:

Building Use Below Deck:

**IN WITNESS WHEREOF, THE BARRETT COMPANY, INC. HAS CAUSED THIS DOCUMENT TO BE EXECUTED BY THEIR AUTHORIZED REPRESENTATIVE THIS \_\_\_\_ DAY OF \_\_\_\_\_, 202\_\_.**

BUILDING OWNER ACKNOWLEDGEMENT  
AND ACCEPTANCE

BARRETT COMPANY, INC.  
2926 Chester Ave  
Cleveland OH 44114

By: \_\_\_\_\_

By: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Mike Eglin  
General Manager

Title: \_\_\_\_\_

Date: \_\_\_\_\_, 201\_\_