

RamProof GC

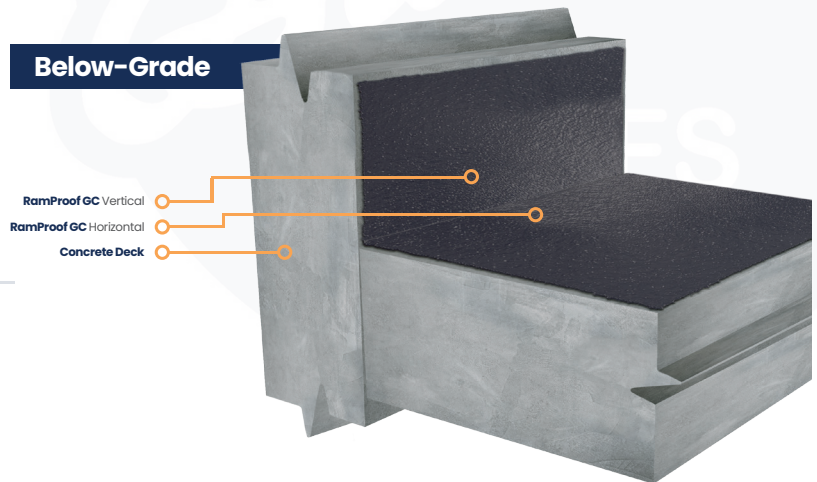
Single Component Fluid Applied Elastomeric Rubberized Asphalt Waterproofing Membrane

MATERIAL STORAGE

- Sheet goods should remain in the box and stored on pallets, covered with breathable canvas tarps, kept out of sun in a cool place, 70° F in the summer and heated to 55°F in the winter. Shelf life, properly stored, is one year.
- Pail goods should be kept out of the sun in a cool place, 70° F in the summer and heated to 55°F in the winter, which will provide a shelf life of one year.
- Temperature controlled warehousing extends storage time of materials.
- Read and be familiar with the Safety Data Sheets (SDS) before using any materials.

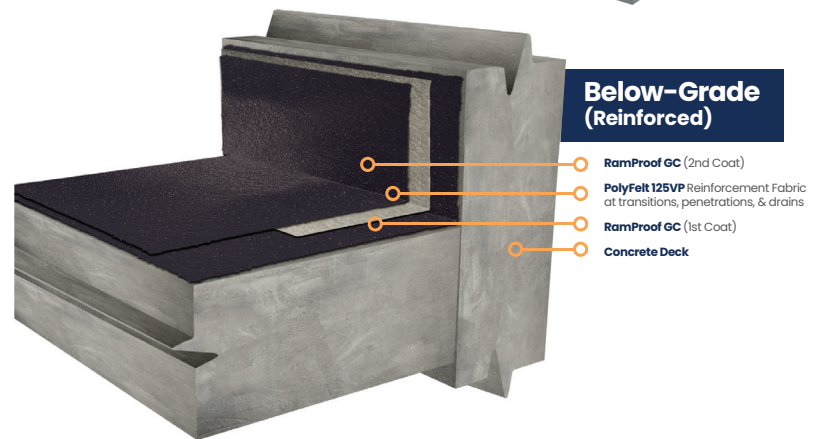
SURFACE INSPECTION

Check that all drains are properly installed, slightly depressed below the top of the roof deck and operative, all pipe and sleeve penetrations in place and properly secured, material storage and access areas determined and agreed to. All honeycomb, form tie holes or cones, air holes, bug holes and other defects must be parged/filled prior to membrane application and protrusions and high spots scraped down. Any questions about concrete surface acceptability can be determined by evaluating the concrete surface using ASTM D-5295 and American Concrete Institute (ACI) ACI 117R-90, re- approved 2002, Section 4.5.6, Section 4.5.7, Detail FF 191.4 or FF 52.9 Guides. Fresh concrete that supports foot traffic is acceptable. Standing water on the concrete surface at the time of installation is not acceptable and needs to be removed. Water curing of concrete with impermeable covers is recommended when long-term curing is employed.



Below-Grade

RamProof GC Vertical
RamProof GC Horizontal
Concrete Deck



Below-Grade (Reinforced)

RamProof GC (2nd Coat)
PolyFelt 125VP Reinforcement Fabric at transitions, penetrations, & drains
RamProof GC (1st Coat)
Concrete Deck

All metal surfaces shall be cleaned of oils, paints, silicones and rust. Power wire brushing, shot blast, sand blasting, ice blasting and similar treatments can be used as required.

Formboard release agents like No. 20 weight motor oil or diesel fuel are commonly used on concrete wall forms. Do not use or go over any release agent containing motor oil, fuel oil, animal fats or stearates. Surface applied wax based, and acrylic curing agents are not acceptable. Suspect areas must be shot blast, sand blast, ice blast or similarly treated prior to application of waterproofing to provide an acceptable surface. Frost-free surfaces are required.



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INSTALLATION - DETAIL WORK

Corners

Exterior and interior corners are installed with 30 mils of RamProof GC applied to the substrate then embed a 10-inch-wide Polyfelt 125VP, 4 inches on one side and 6 inches on the other side. The second installed apply 30 mils of RamProof GC onto the first layer of RamProof GC embed the 10-inch-wide Polyfelt 125VP 6-inch over the 4-inch side and 4 inch over the 6-inch side, squeegeed firmly into place without any voids or air pockets. At parapet walls, membrane assembly should extend full height and to the outside edge of the parapet unless there is a thru-wall flashing or reglet. Do not cover up any weep holes or thru-wall flashings.

Drains

Clean drain sumps of any processed oils, rust or other contaminants with solvent and powered wire brush if required. Make sure drain is set below or at the drainage plane so there are no dams preventing free flow of water.

Install RamProof GC at 30 mils, embed Polyfelt 125VP and apply an additional 30 Mils of the membrane running the ply sheets onto the field of the deck. Install all waterproofing conform to the drain bowl shape. Install clamping ring and cut back interior slit sheets to within 1 to 2 inches from the inside of the clamping ring. Do not allow any laps in clamping ring area. All drains require clamping rings.

Penetrations

Coat the pipe/sleeve and surrounding base with 30 mils of RamProof GC. The application should be installed a minimum of 8" above water level onto the pipe penetration and 8" beyond the base of the pipe penetration. Embed Polyfelt 125VP in the membrane, apply an additional 30 mils of RamProof GC onto the first layer of the RamProof GC and Polyfelt 125 VP, extending onto the pipe and substrate. Any exposed RamProof GC Membrane will need to be covered by embedding with Ram 306 or Ram 306FR. Install stainless steel drawbands at the top of RamProof GC and then cap with KeeneSeal 100.

If detail of projections required Polymethyl Methacrylate, please refer to Barrett RamFlash PMMA Primer and Membrane technical data sheets and installation instructions.

Control Joints

Control joints are not required for the RamProof GC system, however if installed they will need to be detailed. Apply 30 mils of RamProof GC a minimum of 6" to each side of the control joint, install a 12" wide strip of Polyfelt 125VP into the RamProof GC then apply an additional 30 Mils of RamProof GC. Install the full system over the control joint detail.

Expansion Joints

Expansion joints up to 2 ½" inches install backer rod in joint to leave a ½" depth, followed by KeeneSeal 100, flush with the top of the deck. Let sealant fully cure, apply 30 mils of RamProof GC 12" on both sides. Embed Polyfelt 125VP into the existing membrane and then apply an additional 30 Mils of RamProof GC flush to both sides. Install full system over the expansion joint detail.

Wide Expansion Joints

Wide Expansion joints are installed by many different manufacturers such as Watson-Bowman-Acme, Emseal, Construction Specialties, Migutan and others. These assemblies require job-specific detail. Contact your local Barrett representative to assist you.

Change of Plane

Install 30 mils of the RamProof GC into the horizontal to vertical junction a minimum of 7" onto vertical and horizontal then install the Polyfelt 125VP a minimum of 6" onto the horizontal to vertical junction. Repeat the previous step with 30 mils of RamProof GC. Then install the complete system over the detailed area to a height that is 8" above water level and terminate appropriately.

If flashing requires Polymethyl Methacrylate, please refer to Barrett RamFlash PMMA Primer and Membrane technical data sheets and installation instructions.



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MEMBRANE APPLICATION

Horizontal Application

Apply RamProof GC with a roller or squeegee (roller makes it easier to control thickness) onto the substrate at 60 Mils with a rate of 26sqft/gallon or 120 mils with a rate of 13 sq feet per gallon. Temperature and humidity will change the time requirements for the material curing.

The RAM 306 Protection Course should be set in material immediately. If it needs to be installed at a later time please contact The Barrett Company for details.

Note: All "Fishmouths" or wrinkles need to be cut out and detailed.

When all specified plies are installed it is time to run the flood test (ASTM D-5957), or EVM survey (ASTM D-7877). If any leakage or voids are detected, repair the suspect area and retest until there is no leakage of any kind.

VERTICAL MEMBRANE APPLICATION

Footer Detail

Install 30 mils of the RamProof GC into the horizontal to vertical junction a minimum of 7" onto vertical and as far a possible onto the horizontal leaving room for termination bar. Then embed the polyfelt 125VP in the existing RamProof GC, then cover with an additional 30 mils of RamProof GC, make sure to install a minimum of 6" onto the horizontal to vertical junction. Then install the complete system over the detailed area. All other detailing follows the installation guidelines for horizontal applications.

Barrett RAM 306 protection course and Ram Drain drainage layer is required.

Purchase locally	2 Sawhorses and a Sheet of ¾ inch Plywood
Available to purchase from Barrett Company	6 inch and 10 inch Black Pearl® Squeegees
Available to purchase from Barrett Company	18 inch Wood Backed, Smooth Edge Black Pearl® Squeegee – NO TEETH
Purchase locally	Handles for the above
Purchase locally	4 inch and 9 inch Paint Rollers w/extension handles
Purchase locally	3 inch or 4 inch Chip Brushes
Purchase locally	Utility Knife – Hook and Straight Blades
Purchase locally	Ruler, Hammer, Brooms, etc.
Purchase locally	"Keil" type construction crayon
Purchase locally	Handheld Leaf Blower (Gas or Electric, Stihl recommended)
Purchase locally	Nitrile or similar work Gloves (Recommended)
Purchase locally	Empty 5 Gallon Water Pail (for tools overnight)
Purchase locally	1 Gallon Can of Naphtha (To Clean Tools)
Purchase locally	All currently required or recommended OSHA Safety Equipment



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