



Between the World
and The Weather
Since 1928

Ram ColdTar® Plus Roof Restoration Application Guide

Roof Restoration Survey

Before starting any roof restoration project, it is important to determine that the underlying structure is adequate to support the additional weight of the restoration system and if the existing roof assembly contains a detectable amount of moisture. The structural integrity of the roof deck should be evaluated by a professional engineer. If moisture is detected, all wet areas should be removed and replaced with matching materials. If moisture has penetrated a significant amount of roof area, the Barrett Company should be contacted for specific recommendations.

Surface Preparations

Gravel Surface Roof Membranes

Remove all dirt, debris and loose gravel from the roof surface using a power broom or vacuum. If brooming is the preferred method, a power blower should be used to remove any remaining dirt from the roofs surface.

Repair or replace all membrane and flashing defects (e.g. blisters, splits, punctures, etc.) that may affect the structural integrity of the membrane system. Inspect and repair, as necessary, all membrane penetrations, (e.g. pitch pockets, vent pipes, equipment curbs, roof drains, etc.).

In order to avoid having to work around new (uncured) membrane repairs, it is recommended that any major repair to the primary membrane be completed with hot applied bitumen in lieu of a cold process method. If the hot application method is not practical, all repairs should be given sufficient time to set before installing the Ram ColdTar® Plus compound. Foot and equipment traffic should not be permitted over cold process repairs until they have taken a firm set. Set time will vary depending on temperature and weather conditions. Consult your Barrett representative for specific recommendations

All repairs should be made in accordance with generally accepted industry standards, such as those recommended by the National Roofing Contractors Association in their Roof Maintenance and Repair Manual.

Once all repairs have been made and just prior to applying the Ram ColdTar® Plus, apply a light coat of asphalt primer (asphalt roofs only) at a rate of approximately 1/2 gal. per 100 sq. ft. Allow primer to thoroughly dry before applying the Ram ColdTar® Plus. Priming is not required over cold process repairs or coal tar roof membranes.

Smooth/Granulated Surface Membranes

(Built-up and Modified Bitumen Membrane Systems)

Remove all dirt, debris and loose granules from the roof by brooming or vacuuming the surface. If brooming is the preferred method, a power blower should be used to remove any remaining dirt from the roof surface.

Repair or replace all membrane and flashing defects (e.g. blisters, splits, punctures, etc.) that may affect the structural integrity of the membrane system. Inspect and repair, as necessary, all membrane penetrations, (e.g. pitch pockets, vent pipes, equipment curbs, roof drains, etc.).

In order to avoid having to work around new (uncured) membrane repairs, it is recommended that any major repair to the primary membrane be completed with hot applied bitumen in lieu of a cold process method. If the hot application method is not practical, all repairs should be given sufficient time to set before installing the Ram ColdTar® Plus compound. Foot and equipment traffic should not be permitted over cold process repairs until they have taken a firm set. Set time will vary depending on temperature and weather conditions. Consult your Barrett representative for specific recommendations

All repairs should be made in accordance with generally accepted industry standards, such as those recommended by the National Roofing Contractors Association in their Roof Maintenance and Repair Manual.

Priming is not required on smooth and granulated surfaces.

Material Preparation

Ram ColdTar® Plus comes ready to apply after stirring. No heating or thinning is required. To avoid introducing air bubbles into the material, stir by hand.

Application of Ram ColdTar® Plus

Before applying the Ram ColdTar® Plus compound, be certain the roof membrane and its penetrations are structurally sound, watertight and dry.

Gravel Surfaced Roof Membranes

Using a smooth blade squeegee, apply to the prepared surface a solid and continuous coat of Ram ColdTar® Plus at the rate of 6 to 10 gals. per 100 sq. feet.

Irregular substrates may require more material. The variation in the rate of coverage will depend on the texture of the existing membrane surface. The objective is to apply sufficient material in a fashion that will provide the recommended film thickness.

| Application Rate Guide | |
|--|---------------------|
| Apply one 5 gal. pail per grid section | |
| Coverage Rate | Grid Size (approx.) |
| 3 gal/100 sq. ft. | 12' x 13' |
| 4 gal/100 sq. ft. | 11' x 12' |
| 5 gal/100 sq. ft. | 10' x 10' |
| 6 gal/100 sq. ft. | 8' x 10' |
| 7 gal/100 sq. ft. | 8' x 9' |
| 8 gal/100 sq. ft. | 8' x 8' |
| 9 gal/100 sq. ft. | 8' x 7' |
| 10 gal/100 sq. ft. | 7' x 7' |

To achieve proper thickness and assure continuous coverage, it is recommended that the material be spread with the squeegee in 2 directions, 90 degrees to each other.

As the Ram ColdTar® Plus is being applied and before the material begins to develop a surface skin, apply new roofing aggregate at a rate sufficient to completely cover the Ram ColdTar® Plus compound. If gravel surfacing is not desired, consult with your Barrett Company representative for other surfacing options.

Smooth Roof Membrane Surfaces

(smooth or granulated)

Using a 1/4" notched blade squeegee, apply to the prepared surface a solid and continuous coat of Ram ColdTar® Plus at the following rate.

Smooth Roof Surfaces Requiring a Reflective Coating*

3 gal/100 sq. ft.(max)

Smooth Roof Surface Requiring a Granulated Surface*

3 gal/100 sq. ft. (max)

Granulated Surface Receiving a New Granulated Top Surface*

3 gal - 5 gal/100 sq.ft.(avg.)

Granulated Roof surface Receiving a Reflective Top Coat*

3 gal - 4 gal/100 sq.ft.(avg.)

*** Irregular Substrates may require more material. The variations in the rate of coverage will depend on the texture of the existing membrane surface. The objective is to apply sufficient material in a fashion that will provide the recommended film thickness.**

When the existing roof surface exhibits severe surface cracking or is unusually rough, it is recommended that Ram ColdTar® Plus be installed in 2 thinner coats, together equaling the total recommended amount listed above. The first coat is intended to fill the irregularities and the second coat will provide a smoother surface. If a granulated surface is desired, embed the new granules in the second coat. Allow the first coat to set-up before applying the second coat.

| Film Thickness Table | | |
|----------------------|------------|------------|
| Amount | Wet (mils) | Dry (mils) |
| 3 gals/100 sq. ft. | 48 | 29 |
| 5 gals/100 sq. ft. | 80 | 48 |
| 7 gals/100 sq. ft. | 120 | 67 |

Smooth Roof Membrane Surfacing Options

When used to resurface an existing smooth or granulated roof, for optimum performance, Ram ColdTar® Plus must be top coated using one of the following processes.

As the Ram ColdTar® Plus is being applied and before the material begins to develop a surface skin, apply a generous coat of roofing granules at a rate sufficient to completely cover the Ram ColdTar® Plus compound (approx. 90-100 lbs./100 sq. ft.). Avoid all foot traffic on the newly coated surface until the compound has firmly set. Once the compound has set, excess granules can be removed and reused. All excess granules should be removed to avoid clogging the drain system.

Energy Star® Cool Roof Reflective Surfacing

If the Ram ColdTar® Plus compound is to receive a reflective top coating, it should cure for at least 90 days before the reflective coating system is applied.

Aluminum coating and white acrylic, Energy Star® rated, reflective coatings are available from the Barrett Company. Contact your local Barrett Company representative for a cool roof coating system recommendation.

Application Precautions

- For exterior use only
- Do not apply if rain is expected within 12 hours
- Do not thin
- This product must be thoroughly stirred before use
- Do not smoke or expose to open flames during application
- To reduce the potential for odors entering the building, cover fresh air intakes, close windows, doors and other openings which would allow odors to enter during application. This is particularly important for buildings that have an internal negative pressure.
- Not for use with potable water collection systems.
- **READ MATERIAL SAFETY DATA SHEET BEFORE USING**
- **FOR PROFESSIONAL ROOFING CONTRACTOR USE ONLY**

Packaging

Available in 5 gallon pails, 55 gal drums

Application Method

Squeegee

1/4" notched for smooth/granulated roof surfaces

Straight blade for gravel surfaced roofs

Recommended spray equipment

Clean Up

Immediately rinse or flush equipment and tools with mineral spirits or a citrus based cleaner after use. Exercise all combustible liquid precautions. Use waterless hand cleaner on skin.

Storage

Ram ColdTar® Plus compound can be stored at room temperature where it will have a one year shelf life. This product may settle during storage and will need to be stirred before use.

Product Safety Information

Ram ColdTar® Plus offers no unusual health and safety risk 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 an up-to-date Material 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.