

Ram ColdTar[®] Plus

Restoration Roof Coating



Important Notice

This document is provided for guidance only, it is not intended to cover all local code variations.

- Read these installation instructions completely from beginning to end.
- The proper specification and detailing of any waterproofing system are extremely important for long term performance.
- This guide will assist designers and applicators obtain the desired results. Although major topics of consideration are discussed in detail, other elements (e.g. structural framing, climate, interior conditions, etc.) may be important and must be taken into consideration. It is the responsibility of the design professional to take the material presented in this guide and determine that all segments of the overall project design are appropriate.

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. If there is any question about the structural integrity of the roof deck, a professional engineer should be consulted. 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.

Gravel Surface Roof Membranes Surface Preparation

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.

Ram ColdTar Plus comes ready to apply after hand stirring. No heating or thinning is required. To avoid introducing air bubbles into the material, stir by hand. Do not use mechanical mixing equipment. Mixing time can be reduced by turning cans upside down at least 30 minutes prior to opening.

Gravel Surfaced Roof Membranes Application

Before applying the Ram ColdTar Plus compound, be certain the roof membrane and its penetrations are structurally sound, watertight and dry. Using a smooth blade squeegee, apply to the prepared surface a solid and continuous coat of Ram ColdTar Plus at the rate of 6 - 10 gals/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 a continuous minimum film thickness. 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. 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.

Smooth/Granulated Surface Membranes Application (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 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.

Smooth Roof Membrane Application

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. 50 to 60 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.

Application Method

Squeegee 1/4" notched for smooth/granulated roof surfaces Straight blade for gravel surfaced roofs.

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.

Film Thickness Table

Amount	Wet	Dry
3 gals/100 sq. ft.	48 mils	29 mils
5 gals/100 sq. ft.	80 mils	48 mils
7 gals/100 sq. ft.	120 mils	67 mils

Application Rate Guide

Apply one 5 gal. pail grid section

Coverage Rate	Grid Size (approx.)
3 gals/100 sq. ft.	12' x 13'
4 gals/100 sq. ft.	11' x 12'
5 gals/100 sq. ft.	10' x 10'
6 gals/100 sq. ft.	8' x 10'
7 gals/100 sq. ft.	8' x 9'
8 gals/100 sq. ft.	8' x 8'
9 gals/100 sq. ft.	8' x 7'
10 gals/100 sq. ft.	7' x 7'

LIMITED WARRANTY: Keene 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, Keene makes no other warranty, expressed or implied, including warranties of MERCHANTABILITY and FITNESS FOR A PARTICULAR PURPOSE, with respect to Keene Products. Keene to replace or to refund the purchase price of the quantity of Keene Product proven to be defective, and Keene shall not be liable for any loss or damage.

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