

Revitalizer™

Fully Reinforced Modified Bitumen Restoration Application Guidelines



DESCRIPTION

Revitalizer is a heavy-bodied, fiber reinforced fluid-applied waterproof membrane designed to seal and restore smooth built-up roofs (BUR) or mineral modified bitumen roofs when combined with Grip Polyester™ Firm.

MATERIALS

The materials used in the Revitalizer modified bitumen restoration system include:

1. Coating: Revitalizer
2. Primer: Garla-Prime™ or Garla-Primer VOC
3. Compatible Garland asphaltic repair materials
4. Fabric Reinforcement: Grip Polyester™ Firm
5. Cleaning Solution: Garland D7 or Simple Green® Oxy Solve

APPLICATION EQUIPMENT

1. 3/8" (10 mm) shed resistant nap roller
2. 1/4" (6.3 mm) notched squeegee
3. Heavy duty electric power drill
4. Jiffy mixer blade (ES model)
5. Wet Mil Gauge
6. Graco 833 or equivalent if spraying

INSTALLATION

Installation of the Revitalizer system is accomplished in the following steps: repair, preparation, priming and application.

Repair

1. All necessary field and flashing repairs must be done according to good construction practices, including the removal of all wet insulation and defective materials as identified through a moisture detection survey such as an infrared scan and replacement with like materials.
2. All modified bitumen seams must be checked and any loose or damaged seams must be resealed/repared.
3. Repair blisters, holes, cuts, cracks, splits or other modified bitumen surface defects with compatible Garland materials.
4. All roof areas must promote positive drainage.

Preparation

1. Confirm local water run-off ordinances and restrictions prior to cleaning roof.
2. Carefully power wash all roof surfaces with greater than 2,000 psi pressure to remove debris, rust, scale, dirt, dust, chalking, peeling or flaking coatings, etc. Do not force water into the roof system or damage roof surfaces.
3. Wearing personal protective clothing and equipment, remove algae, mildew or fungus with Garland D7 or Simple Green Oxy Solve and scrubbing with a push broom scrub brush. Rinse at least twice to be sure all cleaning agents or contaminants are completely removed to prevent adhesion issues.

4. If the roof surface becomes contaminated with dirt, dust or other particles at any time during the application of the Revitalizer system, cleaning measures must be taken to restore the surface to a suitable condition.
5. Ensure roof is dry prior to application

Priming

After dust, dirt and debris has been removed, surfaces should be primed with Garla-Prime immediately after cleaning to prevent surface contaminants. Garla-Prime or Garla-Prime VOC should be applied at the rate of 1/2 gallon per 100 square feet (0.10 to 0.21 l/m²) over the entire roof. Allow primer to completely dry.

Application Of Fully Reinforced Revitalizer System

1. Determine where first run of Grip Polyester Firm reinforcement will be started. On sloped roof surfaces, the first run of fabric should run parallel to the low edge of the roof with subsequent runs applied using shingling method, overlapping the previous run a minimum of 3 in. (75 mm). A chalk line can be used to guide the first run.
2. After positioning the reinforcement, apply Revitalizer to the surface where the reinforcement is going to be applied. Do not apply Revitalizer too far ahead of fabric or it may start to dry before fabric can be embedded. The minimum application rate is 3.0-3.5 gal/100 sq. ft. (1.2-1.4 l/m²). Immediately roll 40 in. (200 mm) width Grip Polyester Firm reinforcement into the Revitalizer coating. Care should be taken to lay the fabric tight to the roof surface without air pockets, wrinkles, fish mouths, etc.
3. Apply a finish coat layer of Revitalizer over the fabric reinforcement at 3.0-3.5 gallon per 100 gal/sq. ft. (1.2-1.4 l/m²). The finish coat must be applied as soon as possible after the Revitalizer base layer and fabric was installed. Allow to dry for a minimum of 15-30 days before applying reflective coatings.

***NOTE:** Total Revitalizer used to embed and saturate the Grip Polyester Firm reinforcement should be a minimum of 6.0-7.0 gallons per 100 ft.² (2.4-2.82 l/m²) depending on the surface.

Application of Minerals or Reflective Coatings

If granule finish is desired, apply immediately after Revitalizer finish coat application. When granules are not applied, after the Revitalizer system has cured a minimum of 15-30 days, apply either Garla-Brite, Silver-Shield or Pyramic Plus LO at the specified coverage rate.

***NOTE:** During final application of the Revitalizer restoration system, special attention should be given to coating flashings and other critical areas to build adequate membrane thickness. Multiple coats may be necessary on verticals and steep slope to prevent sagging.

Inspection

Inspect entire roof area and touch-up deficient areas with additional Revitalizer as necessary to ensure complete and uniform coverage. Special attention should be given to critical areas of roof, including roof penetrations, transitions, flashings, etc.

LIMITATIONS

These are general guidelines for application of the Revitalizer systems. The material requirements may vary depending on the specific job requirements. If unusual conditions exist, contact your local Garland Representative. Garland's fluid-applied elastomeric roofing systems must be applied to structurally sound substrates and properly prepared surfaces. All surfaces must be clean and dry before application. Garland's restoration systems must not be applied over wet insulation or related materials. Failure of the substrate does not constitute failure of the Garland fluid-applied membrane or system. Garland's systems are designed for use on well drained roofs. Garland's fluid-applied membranes should not be applied when rain or freezing temperatures are expected before coating is dry.

1. Revitalizer coatings are asphalt-based fluid-applied waterproofing products; application of these materials must not be done when rain or other conditions such as fog or heavy dew are possible before coating can dry sufficiently. Increased curing from too much moisture caused by rain or dew can cause the product to blister. Drying time is affected by numerous factors including temperature, direct sunlight, relative humidity, air movement, thickness, etc. Application should not be done when temperatures are below 40°F (4°C) or expected to drop below freezing before coating is dry. Do not apply if the ambient temperature is 95°F (35°C), or higher.
2. Surfaces must always be clean before application of Revitalizer. Care must be taken to ensure that on-site manufacturing emissions or extended time intervals after original cleaning do not interfere with any stage of the coating applications. If either condition occurs, then cleaning may be required again.
3. Adequate fluid-applied thickness is essential to performance. If the applicator is unfamiliar in gauging application rates, we suggest that a controllable area be measured and the specified material be applied. In all cases, minimum specified material must be applied and proper minimum dry film thicknesses must be achieved. Care must be taken to ensure that all areas completed including all flashings, roof penetrations, etc. are coated sufficiently to ensure a watertight seal.
4. During final application of the Revitalizer restoration system, special attention should be given to coating flashings and other critical areas to build adequate membrane thickness. Multiple coats may be necessary on verticals and steep slope to prevent sagging.
5. Applicator must comply with all applicable local, state, and federal regulations if lead-based paint or other hazardous materials are encountered.
6. Roofing is hazardous work and fluid-applied membranes are very slippery when wet. Comply with fall protection rules and regulations.
7. Ensure preparation and planning regarding typical construction odors.

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