

THERMO MATERIALS®

2-PLY MODIFIED EMULSION OVER GRAVEL SPECIFICATION

Disclaimer: This document is intended as a Scope of Work and as such is written in a general manner. If actual project conditions are such as to be outside the scope of the normal waterproofing practices that are referenced in this document, steps should be taken to ensure the restoration remains in compliance with nationally recognized waterproofing practices such as those found in the National Roofing Contractors Association Manual.

The following covers the installation of a **Cold Process 2-ply Modified Emulsion** over a properly prepared gravel roof.

REQUIRED MATERIALS

1. Reinforcement Fabric - [Thermopolyester SB-075](#) (6" width minimum)
2. Modified Emulsion - [#404 SEBS Modified Emulsion](#) (3 gal/sq)
3. Emulsion - [#200 Emulsion](#) (4 gal/sq)
4. Field Fabric - [Thermopolyester SB-075 Firm](#) (10 sq roll)
5. Drains – [#404 SEBS Modified Emulsion](#)
6. Base Coat – [Thermolene® SEBS Stainblocker](#) (stain blocking aluminum)
7. Surface Coat – [Thermolene® SEBS Reflective](#) (white)

RECOMMENDED THERMO SYSTEM

1. All surfaces to receive new roofing or flashing materials shall be smooth, clean, dry and in good repair. Remove any temporary patching compounds or mastics. Loose aggregate is to be removed by mechanical means such as a "wet-vac" process. Allow to completely dry.
2. All roof penetrations, curbs, transition points, vents, drains and scuppers shall be 4-coursed, defined as 2 layers of [Thermopolyester SB-075](#) Reinforcement Fabric between three 3-gal/sq layers of [#404 SEBS Modified Emulsion](#) having a width greater than that of the [Thermopolyester SB-075](#) Reinforcement Fabric which has a width and length that is 6" greater for details and 12" greater than that of a field deficiency. Apply the [Thermopolyester SB-075](#) Reinforcement Fabric without fishmouths or wrinkles. Allow assembly to fully cure.
3. Install a flood coat of [#200 Emulsion](#) at the rate of 8 to 12-gal/sq in 2 to 3 passes of 4-gal/sq each. Do not install more than 4 gal/sq in one pass. Use sufficient [#200 Emulsion](#) to achieve a smooth and uniform surface condition. Allow each backfill layer to reach full cure.
4. Flood coat the now fully cured, smooth and uniform surface with a 3-gal/sq application of [#404 SEBS Modified Emulsion](#). Immediately embed a single layer of [Thermopolyester SB-075 Firm](#) Field Fabric and back-roll to ensure full embedment and saturation of the [Thermopolyester SB-075 Firm](#) Field Fabric. Application techniques shall be such to allow for proper application rates to all high and low spots as well as angles in the roof surface. Avoid pooling or puddling of the material. Apply the [Thermopolyester SB-075 Firm](#) Field Fabric without fishmouths or wrinkles. Allow this application to fully cure.
5. All drains and scuppers perimeter, a minimum of 40", shall be additionally 3-coursed, defined as a layer of [Thermopolyester SB-075](#) Reinforcement Fabric fully embedded in 2 layers of [#404 SEBS Modified Emulsion](#) at a rate of 1½-gal/sq having a minimum width greater than that of the [Thermopolyester SB-075](#) Reinforcement Fabric. Apply the [Thermopolyester SB-075](#) Reinforcement Fabric without fishmouths or wrinkles.
6. Immediately apply a second 3-gal/sq application of [#404 SEBS Modified Emulsion](#) and immediately embed a single layer of [Thermopolyester SB-075 Firm](#) Field Fabric and back-roll to ensure full embedment and saturation of fabric. Allow this application to fully cure.
7. Upon full cure, overcoat the entire assembly with a 3-gal/sq application of [#404 SEBS Modified Emulsion](#). Allow this application to fully cure.
8. After full cure of the interply assembly, apply a uniform 1¼-gal/sq [Thermolene® SEBS Stainblocker](#) Base Coat. Application techniques shall be such to allow for proper application rates to all high and low spots as well as angles in the roof surface. Allow application to fully cure.
9. After full cure of the [Thermolene® SEBS Stainblocker](#) Base Coat, apply a uniform 1¼-gal/sq of [Thermolene® SEBS Reflective](#) Surface Coat using a crosshatch pattern to that of the [Thermolene® SEBS Stainblocker](#) Base Coat. Application techniques shall be such to allow for proper application rates to all high and low spots as well as angles in the roof surface. Allow application to fully cure.
10. Follow NRCA guidelines for any ponding areas on the roof.
11. Inspect all finished surfaces for proper mils and deficiencies in the application. Where necessary apply additional [Thermolene® SEBS Reflective](#) Surface Coat at a rate of 1-gal/sq to any deficient areas.

Warranty: If applied according to our published specifications and guidelines and after successfully passing a final inspection and then accepted by Thermo Manufacturing Systems, LLC, this system would qualify for our 10-Year Labor & Material Warranty. Call for details regarding warranty application documentation requirements and warranty fee schedule.



Eco-friendly, Sustainable Building Restoration Specialists