

# THERMO MATERIALS®

## NON-KYNAR THERMOCONE THS METAL ROOF RESTORATION 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 THS Silicone Repair and Restoration System for a properly prepared non-kynar metal roof.

### REQUIRED MATERIALS

1. Light Rust Treatment – [SEBS Rust Inhibitor](#) (1 gal/sq)
2. Flashing Mastic – [Thermocone THS Mastic](#) (20 linear feet average per gallon of completed 3-course 6" wide)
3. Reinforcement Fabric – [Thermopolyester SB-075](#) (6" width minimum)
4. Drains – [Thermocone THS Silicone](#)
5. Base Coat – [Thermocone THS Silicone](#) (white or gray)
6. Surface Coat – [Thermocone THS Silicone](#) (white)

### RECOMMENDED THERMO SYSTEM

1. All existing surface contaminates such as asphaltic mastics, peel and stick membranes or other roofing materials shall be removed to expose the underlying surface to which new materials are to be applied.
2. All surfaces to receive roofing or flashing materials shall be thoroughly cleaned using a high-pressure spray washer, with a minimum of 3,000 psi, and **clean water**, to remove all loose debris, dirt and other buildup. In areas where pressure washing would be prohibited due to existing substrate conditions, prepare these areas by hand using clean water only.
3. Areas of rust shall have the appropriate application of [SEBS Rust Inhibitor](#) Light Rust Treatment applied. Severe rust is not considered a coatable surface. Replace deteriorated panels with like size, style and type.
4. All existing fasteners shall be re-tightened and secured as necessary. Loose or missing fasteners shall be replaced with like but slightly larger OD and the area resecured by adding a new fastener next to the one which was stripped or replaced. All exposed fasteners shall be fully encapsulated using [Thermocone THS Mastic](#) Flashing Mastic in such a fashion as not to inhibit the normal drainage pattern of moisture.
5. Upon the completion of the initial surface preparations, all horizontal seams (*end laps*) shall be 3-coursed, defined as a layer of [Thermopolyester SB-075](#) Reinforcement Fabric sandwiched between 2 layers of [Thermocone THS Mastic](#) Flashing Mastic at a rate of 20 linear ft/gal 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. Vertical seams (*side laps*) shall have 3" wide layer of [Thermocone THS Mastic](#) Flashing Mastic applied (*no fabric required*).
6. All roof penetrations, curbs, transitions points, vents, drains and scuppers shall also be 3-coursed as defined in Step #5. Apply the [Thermopolyester SB-075](#) Reinforcement Fabric without fishmouths or wrinkles.
7. Roof to wall transitions and metal counterflashings, shall be 3-coursed as defined in step #5. Apply the [Thermopolyester SB-075](#) Reinforcement Fabric without fishmouths or wrinkles.
8. 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 [Thermocone THS Silicone](#) Base Coat 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.
9. After full cure of preparations, to all areas of the roof to be coated, including any vertical transitions; apply a uniform 1¼-gal/sq of [Thermocone THS Silicone](#) 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. After full cure of the [Thermolcoe THS Silicone](#) Base Coat, apply a uniform 1¼-gal/sq of [Thermocone THS Silicone](#) Surface Coat using a crosshatch pattern to that of the [Thermocone THS Silicone](#) 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.
11. Follow NRCA guidelines for any ponding areas on the roof.
12. Inspect all finished surfaces for proper mils and deficiencies in the application. Where necessary apply additional [Thermocone THS Silicone](#) 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 MRS Warranty which includes labor and material. Call for details regarding warranty application documentation requirements and warranty fee schedule. Optional Thermo Materials® Sealants are available. Call for details.



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