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ROOF MATE Step-By-Step Application Over METAL ROOFING



List of materials:

- ROOF MATE WHITE
- ROOF MATE BASECOAT
- ROOF MATE BUTTER GRADE
- UNI-TAPE

Optional materials:

- UCC (United Cleaning Concentrate)

The 6 pages following illustrate each step.

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STEP 1 – Preparation

Retighten or replace mechanical fasteners, as necessary. "Stripped out" fasteners shall be replaced using a larger diameter fastener.

Unsound rust shall be wire brushed, sandblasted or mechanically abraded to remove all loose rust. Metal panels deteriorated to the point that their structural integrity is compromised shall be replaced.

Remove excessive amounts of asphaltic-based or other deteriorated patching/flashing materials, if present.

Excessive gaps or deflection between panels shall be eliminated by installing additional screws or rivets as necessary to restrict deflection to $\frac{1}{4}$ " (6 mm) or less.



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STEP 2 – Cleaning

Metal surfaces must be clean, dry, sound, and free of dirt, grease, oil, and any other contaminants that may interfere with optimum adhesion of the coating. All metal surfaces, whether new or existing, shall be cleaned using **United Cleaning Concentrate (UCC)** or comparable biodegradable cleaner.

Heavy deposits of dirt or contamination may require agitation with a stiff-bristle broom or similar mechanical scrubber.

All existing "sound" rusted areas shall be primed with a high quality acrylic metal primer according to the manufacturers instructions.

If the roof has been coated with aluminized asphalt, contact UNITED COATINGS for additional preparation instructions.

Fill gaps between $\frac{1}{4}$ " and $\frac{1}{2}$ " (6 and 13 mm) at panel seams, joints and protrusions with **ROOF MATE Mesh** embedded into **ROOF MATE Butter Grade**. Fill gaps larger than $\frac{1}{2}$ " (13 mm) using polyethylene backer rod or spray-applied polyurethane foam.



Rusty Areas: Wire brush and prime with Cold Galvanize Zinc Rich Primer:

<http://www.bestmaterials.com/detail.aspx?ID=18201>

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STEP 3 – Details

Treat all horizontal (end-lap) seams, roof terminations, flashings, around drains, scuppers and skylights, and around the base of all vents and other protrusions with **Roof Mate Mesh** embedded into a heavy coat of **ROOF MATE Butter Grade** or **ROOF MATE Basecoat**.

Or, cut a length of 6" (15 cm) **Uni-Tape** to the desired length, peel off the release backing, center over the detail area and press firmly into place, removing all wrinkles and bubbles. A wallpaper seam roller is helpful in securing the **Uni-Tape** to the metal deck.

Treat all overlapped horizontal (side-lap) seams with **ROOF MATE Butter Grade**. Using a 3" or 4" brush, apply the **Butter Grade** in 1 or 2 coats, to a total thickness of 40 to 60 mils (1,016 to 1,524 microns), centered over the seam. 2" **Uni-Tape** can also be used on overlapped horizontal seams.



We have other alternative products for seam repairs.
These are simple peel/stick seam repair products:

* Eternabond Webseal

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STEP 3 – Details (continued)

At the interface of any metal with a dissimilar material, detail the joint either by applying a strip of 6" (15 cm) **ROOF MATE Mesh** embedded into **ROOF MATE Butter Grade**, or with 6" **Uni-Tape** as previously described.

All mechanical fastener heads shall be treated using **ROOF MATE Butter Grade**. Using a stiff 1" to 2" brush, apply **Butter Grade** using a swirling motion so that it completely encapsulates the base of the fastener head, sealing it to the deck.



Duralink Sealant is excellent for screws and detail areas:
<http://www.bestmaterials.com/detail.aspx?ID=18350>

We also have all types of replacement screws available:
http://www.bestmaterials.com/roof_screw.aspx

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STEP 4 – Reinforcement

At drip edges, refasten all metal flanges and reinforce the area with **ROOF MATE Butter Grade**, or embed 4" or 6" **ROOF MATE Mesh** into a strip-coat of **ROOF MATE Butter Grade** or **ROOF MATE Basecoat**. Reinforce all protrusions, skylights, etc. in the same manner.



Yellow Fiberglass Roofing Mesh is Available in 4 to 36 inch wide rolls:
<http://www.bestmaterials.com/SearchResult.aspx?categoryid=791>

Tietex Soft Polyester is also available in 4 to 40" wide rolls:
<http://www.bestmaterials.com/tietex-reinfortment-fabrics-513.html>

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STEP 5 – Coating Application

Apply 1 to 4 separate coats of **ROOF MATE**, using airless spray or roller, at the total rate of 1.5 to 5.5 gallons per 100 sq. ft. (.6 to 2.2 l/m²), depending on warranty and/or specification requirements.

Create a self-terminating flashing by extending the **ROOF MATE Topcoat** a minimum of 3" (7.5 cm) above all protrusions, parapet walls, etc.



REQUEST FOR QUOTE:

Send by fax to 602-272-8014 or email to sales@bestmaterials.com

1. Building Address, City, State
2. Building Roof Square Feet of Area:
3. Describe Existing Leaks and Condition:
4. Project Manager: Name, Phone, Email
5. Timing of Project