

20 YR SYSTEM QUICK SPEC METAL

Fire Retardant
Urethane Base and Aliphatic Top Coat System
37 Dry Mils

DESCRIPTION

The EVER-THANE® COOL ROOF RESTORATION COATING SYSTEM for metal roofs is comprised of two applications of a fire-retardant, aliphatic urethane top coat, EVER-THANE® Bright White Plus. This high-performance urethane coating system protects the existing roof from the harmful effects of UV, greatly reducing thermal shock and prolonging the life of the roof while helping maintain internal temperatures and reducing cooling costs. It protects against grease, animal fats and most industrial chemicals, and withstands ponding water. EVER-THANE is our most durable system.

BASIC USES

EVER-THANE® COOL ROOF RESTORATION COATING is a tough, durable system designed to extend the life of a wide range of roof top environments from premature weathering and moisture intrusion. It is effective as a protective membrane to coat an entire roof, or to use for spot repair.

FEATURES & BENEFITS

- Prolongs the life of an existing roof surface while helping to lower internal temperatures and reduce cooling costs
- Hydrophobic – highly resistant to water penetration
- High tensile strength and abrasion resistance
- Excellent adhesion to a variety of roof substrates
- Ease of application - extremely fast and simple to install
- Can be used to reinforce and seal seams, penetrations, transitions, terminations, and to make spot repairs
- Economical - extends the life of your existing roof

WARRANTY

EVERROOF offers two Limited Warranties:

1. Material Only Warranty - No Charge
2. Labor & Material Warranty - For Approved Applicators Only

Fees and other conditions will apply. Consult your EVER-ROOF representative.

REQUIRED MATERIALS

- EVERROOF Primer M40 Alkyd Metal Primer, or EVER-ROOF M55 Epoxy Prime
- EVER-THANE® Bright White Plus Aliphatic Top Coat
- EVER-FABRIC 3 oz.
- EVERROOF Webseal with polyester backing
- EVER-THANE® Roof Flash

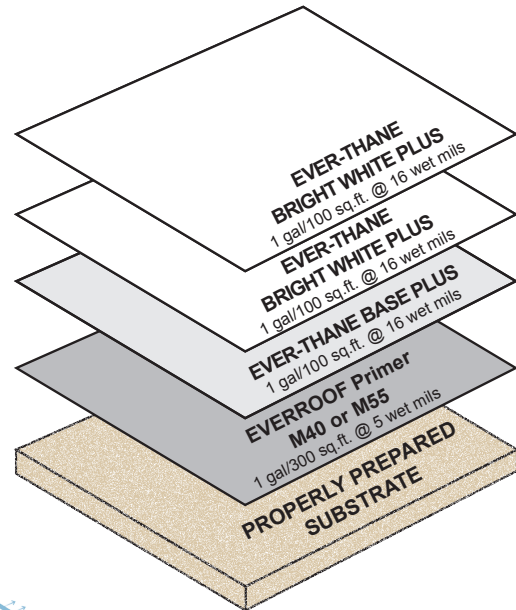
Consult your EVERROOF representative for project specific requirements.

The EVER-THANE® System provides tenacious adhesion with an existing roof system to form a monolithic membrane. The result is a CRRC rated system that exceeds all Title 24 requirements.

SYSTEM DESCRIPTION

The EVER-THANE® system is comprised of options for primer and aliphatic top coat to cover and protect your roof:

20 YEAR SYSTEM COVERAGE FOR METAL ROOFS



1. EVERROOF Primer M40 is a water based, acrylic-metal primer for steel surfaces. Primer M40 is an interior and exterior metal maintenance primer that is free of heavy metal hazards.
2. EVERROOF Primer M55 is a single-component, high solids red oxide alkyd primer for steel surfaces. It is fast drying, rust inhibitive, and easy to apply by brush, spray or roller.
3. EVER-THANE® Bright White Plus is a fire-retardant, aliphatic, single-component, moisture-cure urethane coating designed for use as a top coat or for repair work. Available in standard and 250 VOC versions.

STORAGE & HANDLING

Keep containers closed, and store in a dry, cool place away from heat, sparks, open flame, and moisture. Keep material stored above 65°F (18°C) and on wood pallets off concrete floors. Open containers should be blanketed with dry nitrogen before resealing.

ADHESION TEST

To ensure successful application of the EVER-THANE® system always perform several adhesion tests (ASTM D-903) with the coating to ensure the roof substrate will accept the coating. Do not proceed with coating system without prior testing.



TECHNICAL DATA

Packaging	1 gal can 5 gal pail 55 gal drum	
PHYSICAL PROPERTIES	Base Coat	Top Coat
Color	Gray	White, Custom
Shelf Life	12 months (Unopened)	
Hardness Shore A, ASTM 2240	70 ± 5	90 ± 5
Tear Strength, ASTM D-624	150 pli ± 20 (26.3 ± 3.5 kN/M)	350 pli ± 50 (61.3 ± 8.8 kN/M)
Tensile Strength, ASTM D-2370	500 ± 100 psi (3.45 — 0.7 Mpa)	3000 ± 300 psi (20.7 ± 2.1 Mpa)
Elongation, ASTM D-412	350% ± 100	350% ± 100
Specific Gravity	1.42	1.34
Total Solids by Weight, ASTM D-2697	83% ± 3	76% ± 2
Total Solids by Volume, ASTM D-2697	83% ± 3	74% ± 2
Viscosity	6000 ± 3000 cps	3500 ± 1500 cps
VOC, ASTM D-2369-81	≤ 0.42 lb/gal (50gm / t)	≤ 0.42 lb/gal (50gm / t)

PRE-INSPECTION

Inspect roof for necessary repairs before application of coating system. Inspection should include but not limited to the following:

- HVAC units and flashings
- Ponding water
- Parapet wall conditions
- Wet or damp insulation
- Sign or display anchorage
- Seams, terminations, transitions, and reglets
- Water leakage
- Substrate damage or disrepair
- Proper drainage and obstructions
- Copings and flashings
- Sleepers and pitch pockets

SURFACE PREPARATION

1. Remove all unnecessary and non-functional equipment and debris from the roof.
2. Remove dirt and foreign material detrimental to adhesion or application by thoroughly cleaning all roof surfaces with a high pressure (2,000 - 2,500 psi) (13.79 MPa - 17.24 MPa) wash. Surfaces contaminated with oil, grease, animal fats, etc. must be removed using tri-sodium phosphate and water, or other solutions as required by job conditions and as permitted by local and federal regulations. Remove all cleaning solutions with plenty of fresh water and allow to dry.
3. Metal seam and flashing failures must be repaired by traditional and professional roofing practices. Tighten and/or replace all existing fasteners, install crickets and complete metal sheet work repairs.
4. Prime all areas with EVERROOF Primer M40 or M55, and allow to cure. Detail all roof penetrations, skylights, rake edges, round projections, machine legs, sign posts, guide wire straps, inside and outside corners,

gutters, joints, pipes, voids, protrusions and any areas where water could enter through the roof. Encapsulate all fasteners with EVER-THANE® Roof Flash. Clean and seal all drain areas watertight. Use EVERROOF Web-seal where necessary.

5. On all flat seams apply one pre-coat of EVER-THANE® Roof Flash at a rate of 3.0 gallons per 100 sf @ 50 wet mils minimum and embed EVER-FABRIC in between layers of wet resin. EVER-THANE Roof Flash shall extend a minimum of 2 inches beyond the edges of the repair.
6. On metal roofs with standing seams apply EVER-THANE® Roof Flash to seal them completely.
7. Allow prepared surfaces to become tack free before proceeding with additional priming or coating application. Note: Thickness values of cured film are averages and can vary due to finish of surface. ALWAYS CHECK THE WEATHER PRIOR TO APPLICATION. Depending on the ambient and substrate temperatures, relative humidity, and dew point precautions should be taken when applying materials if precipitation or freezing temperatures are anticipated. Consult product data sheets. Do not apply over wet insulation or related materials.

COATING APPLICATION

1. Apply EVERROOF® Primer M40 or Primer M55 to the substrate at a theoretical coverage rate of 1/3 gal/100 sf @ 5 wet mils and allow to cure.
2. Apply base coat with EVER-THANE® Base Plus at the rate of 1.0 gallons per 100 sf @ 16 wet mils and allow to cure.
3. Apply first EVER-THANE® Bright White Plus at the rate of 1.0 gallons per 100 sf @ 16 wet mils and allow to cure.
4. Apply second EVER-THANE® Bright White Plus at the rate of 1.0 gallons per 100 sf @ 16 wet mils to yield a total of 37 dry mils of coverage (minimum requirement for 20-year warranty). Actual required application rate will depend on system specified and length of warranty.

DO NOT EXCEED 2.0 GALLONS PER 100 SF PER APPLICATION FOR EVER-THANE® Base Plus or 1.0 GALLON PER 100 SF FOR EVER-THANE® Bright White Plus. This can cause blisters and/or pinholes. Care should be taken to avoid sagging, pinholes, and runs of the coating on vertical, horizontal, and slanting surfaces to prevent sagging. Application rate may need adjusting if topcoat starts to sag on verticals. If adjusted, allow base coat and/or top coat to dry 24 hours in-between coats and may require additional coats to achieve required mil thickness. EVER-THANE® Accelerator may be used to help avoid pinholes and/or blisters.

Accelerator: EVER-THANE® Accelerator is available for faster curing time for the base coat and top coat.

Protection: After completion of application, do not allow traffic on coated surfaces for a period of at least 48 hours at 75°F and 50% R.H., or until completely cured.

EQUIPMENT

Spray Applied - See EVERROOF's Spray Application Guide.

Dipped and Rolled - Brushes of various sizes and a 3/8" nap roller should be used when applying on smooth surfaces such as metal.

THIS QUICK SPEC IS MEANT ONLY AS AN OVERVIEW OF INSTALLATION PROCEDURES. IT IS NOT MEANT TO REPLACE THE DETAILED SPECIFICATION REQUIREMENTS THAT APPEAR IN THE LOW SLOPE RESTORATION SYSTEM SPECIFICATIONS. ALWAYS REVIEW THE DETAILED SPECIFICATION PRIOR TO BEGINNING ANY PROJECT. Published technical data and instructions are subject to change without notice. Contact your local EVERROOF® representative or visit our website for current technical data and instructions. Not responsible for typographical errors. REV20190801AA