

# 20 YR SYSTEM QUICK SPEC METAL

Urethane Base and Aliphatic Top Coat System

43 Dry Mils

## DESCRIPTION

The EVER-THANE COOL ROOF RESTORATION COATING SYSTEM for metal roofs is comprised of two applications of aliphatic urethane top coat, EVER-THANE BRIGHT WHITE. 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 to maintain internal temperatures and reducing cooling costs. It protects against grease, animal fats and most industrial chemicals, and withstands ponding water. 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
- UL-790 Class "A" fire resistance rating

## WARRANTY

EVERROOF offers two Limited Warranties:

1. Material Only Warranty - No charge
2. Labor & Material Warranty - For approved applicators only, fees will apply. Consult your EVERROOF representative.

## REQUIRED MATERIALS

- EVERROOF Primer M55 Alkyd Metal Primer, or
- EVERROOF Primer M80 Epoxy Primer
- EVER-THANE BRIGHT WHITE Aliphatic Top Coat
- EVER-FABRIC 3 oz. Firm 4"
- EVERROOF Webseal with polyester backing
- EVER-THANE ROOF FLASH

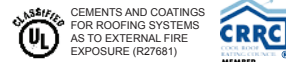
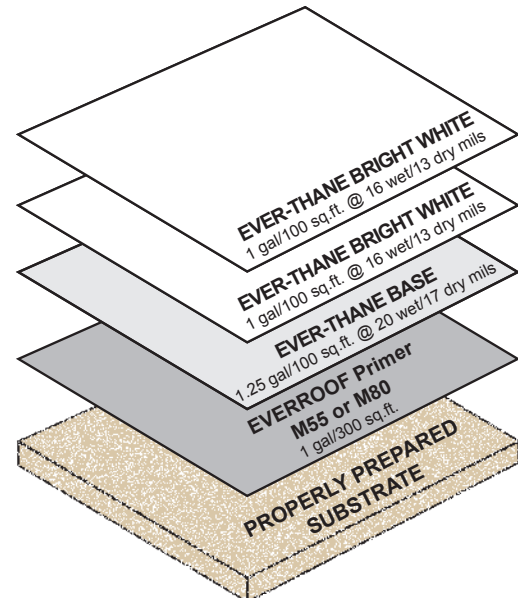
Consult your EVERROOF representative for project specific requirements. The EVER-THANE SYSTEM provides tenacious adhesion with an existing roof system to form a monolithic membrane. The result is a CRRC rated system that exceeds all Title 24 requirements.

## SYSTEM DESCRIPTION

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

1. EVERROOF Primer M55 is a single-component, high solids red oxide alkyd primer for steel surfaces. It is fast

## 20 YEAR SYSTEM COVERAGE FOR METAL ROOFS



drying, rust inhibitive, and easy to apply by brush, spray or roller.

2. EVERROOF Primer M80 is a two-component, solvent based epoxy-polyamine primer with unique penetrating characteristic. It has quick recoat time and is low viscosity.
3. EVER-THANE BRIGHT WHITE is a versatile, multi-purpose, aliphatic, single-component, moisture-cure, urethane coating designed for use as a top coat or for repair work on metal and other roof systems.

## 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.

## PRE-INSPECTION

Inspect roof for necessary repairs before application of



## TECHNICAL DATA / PHYSICAL PROPERTIES

PACKAGING		THEORETICAL COVERATE RATE	
1 gal Cans 5 gal Pails 55 gal Drums		1gal = 16 mils / 100 sq. ft.	
1 5 55		SEE WARRANTY SYSTEM CHART FOR DRY FILM THICKNESS REQUIREMENTS AND COVERAGES RATES	
TECHNICAL DATA	BASE COAT		TOP COAT
	EVER-THANE WATER-LOK	EVER-THANE BASE	EVER-THANE BRIGHT WHITE
Color	Green, Terracotta	Blue	White
Shelf Life @ 65°F - 95°F (18°C - 35°C)	12 Months (unopened container)	12 Months (unopened container)	12 Months (unopened container)
PHYSICAL PROPERTIES			
Hardness Shore A, ASTM D-2240	45 ± 5%	50 ± 5%	90 ± 5%
Tensile Strength, ASTM D-2370	600 psi (4.17 MPa)	500 psi (3.45 MPa)	105 lbs / in
Tear Strength, ASTM D-624	100 pli (17.51 N/mm)	100 pli (17.51 N/mm)	400 ± 50 pli (70.1N/mm)
Elongation, ASTM D-412	500% ± 100%	500% ± 100%	365%
Specific Gravity	1.26	1.41	1.47
%Solids by Weight, ASTM D-2369	92 ± 2%	87 ± 3%	85 ± 2%
%Solids by Volume, ASTM D-2697	88 ± 2%	85 ± 3%	81 ± 3%
Viscosity @ 77°F (25°C)	20,000 - 40,000 cps	4,000 - 6,000 cps	5,000 - 7,000 cps
VOC, ASTM D-2369-81	100 g/l (0.83 lbs / gal)	50 g/l (0.42 lbs/ gal)	48 g/l (0.42 lbs/gal)
Reflectivity (3 years)	-	-	0.79
Emissivity (3 years)	-	-	0.90
SRI (3 years)	-	-	0.99
Fire Resistance	-	UL-790 Class "A"	UL-790 Class "A"

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

Apply EVERROOF Primer M55 or Primer M80 to the substrate at a theoretical coverage rate of 1/3 gal/100 sf @ 5 wet mils, and allow to cure. Apply base coat with EVER-THANE BASE or EVER-THANE WATER-LOK at the rate of 1.25 gallons per 100 sf @ 20 wet mils, and allow to cure. Then apply first coat of EVER-THANE BRIGHT WHITE top coat at the rate of 1.0 gallons per 100 sf @ 16 wet mils, and allow to cure. Then apply second coat of EVER-THANE BRIGHT WHITE top coat at the rate of 1.0 gallons per 100 sf @ 16 wet mils to yield a total of 52 wet mils or 43 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 1.5 GALLONS PER 100 SF PER APPLICATION for EVER-THANE BASE or EVER-THANE WATER-LOK and EVER-THANE BRIGHT WHITE. 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.

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 M55 or M80, 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 Webseal where necessary. (5) On all flat seams apply one pre-coat of EVER-THANE ROOF FLASH at a rate of 1.5 gallons per 100 sf @ 24 wet mils minimum and embed EVER-FABRIC in between layers of wet resin. EVER-THANE ROOF FLASH shall extend a minimum of 3 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

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.