Urethane
EVER-THANE®
ET
FLUID APPLIED
COOL ROOF SYSTEM

20 YR SYSTEM QUICK SPEC

PVC

Urethane Base and Aliphatic Urethane Top Coat System

44 Dry Mils

DESCRIPTION

The EVER-THANE® COOL ROOF RESTORATION COATING SYSTEM for aged PVC roofs is comprised of a fire-retardant, aromatic urethane base coat, EVER-THANE® BASE PLUS, and 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. 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 and other conditions will apply. Consult your EVERROOF representative.

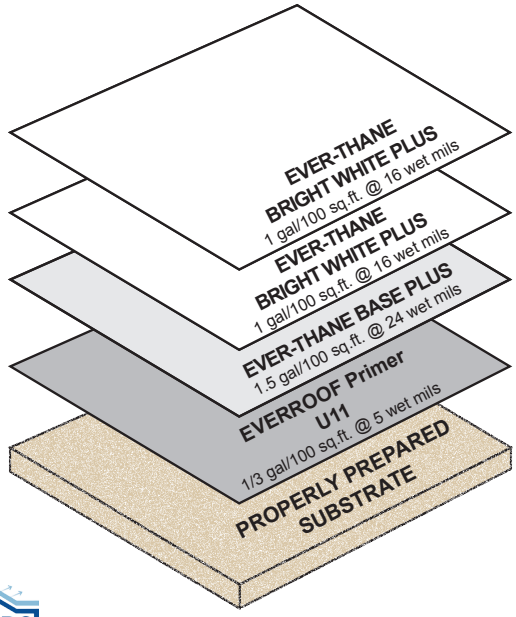
REQUIRED MATERIALS

- EVERROOF Primer U11 Urethane Primer for aged PVC surfaces
- EVERROOF Primer M80 Epoxy Primer for metal and wood
- EVER-THANE® BASE Urethane Base Coat
- EVER-THANE® BRIGHT WHITE 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.

20 YEAR SYSTEM COVERAGE FOR PVC ROOFS



CRRC COOL ROOF RATING COUNCIL® MEMBER

SYSTEM DESCRIPTION

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

1. EVERROOF Primer U11 is a two-component, liquid applied, 100% solids, low viscosity polyurethane primer. It is fast drying and provides quick recoat time.
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® BASE PLUS is a fire-retardant, aromatic, single-component, moisture-cure urethane coating designed for use as a base coat or for repair work. Available in standard version.
4. 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.

EVERROOF®

TECHNICAL DATA		
Packaging 1 5 55	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 ± 3.5kN/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 / ℓ)	≤ 0.42 lb/gal (50gm / ℓ)

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 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. Membranes with 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 U11 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 with EVER-THANE® ROOF FLASH and EVER-FABRIC embedded in between layers of wet resin. Clean and seal all drain areas watertight. Webseal may be used where necessary.
5. On all seams apply 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 on both sides of seam.
6. 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 U11 or Primer M80 to the substrate at a theoretical coverage rate of 1/3 gallon per 100 sf @ 5 wet mils, and allow to cure.
2. Apply base coat with EVER-THANE® BASE PLUS at the rate of 1.5 gallons per 100 sf @ 24 wet mils and allow to cure.
3. Apply first coat of EVER-THANE® BRIGHT WHITE PLUS top coat at the rate of 1.0 gallons per 100 sf @ 16 wet mils, and allow to cure.
4. Then apply second coat of EVER-THANE® BRIGHT WHITE PLUS top coat at the rate of 1.0 gallons per 100 sf @ 16 wet mils to yield a total of 44 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 and 1.0 GALLONS PER 100 SF PER APPLICATION 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 or 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.