

EVER-THANE®

URETHANE

FLUID APPLIED COOL ROOF SYSTEM

20 YR SYSTEM QUICK SPEC CONCRETE

64 Wet Mills (1626 μ)
Aromatic Polyurea Top Coat
Aromatic Polyurea Base Coat

DESCRIPTION

The **EVER-THANE® COOL ROOF RESTORATION COATING SYSTEM** for concrete roof systems combines an aromatic polyurea-urethane base coat, EVER-THANE WATER-LOK, with an aromatic polyurea-urethane top coat, EVER-THANE® WHITE. It is a strong urethane system that provides high performance. These high performance urethane coatings protect 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. Protects against grease, animal fats, and most industrial chemicals. Our most durable system. Withstands ponding water!

BASIC USES

The EVER-THANE® COOL ROOF RESTORATION COATING SYSTEM is a tough, durable application 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 membrane while helping to lower internal temperatures and reduce cooling costs.
- Hydrophobic – highly resistance 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:

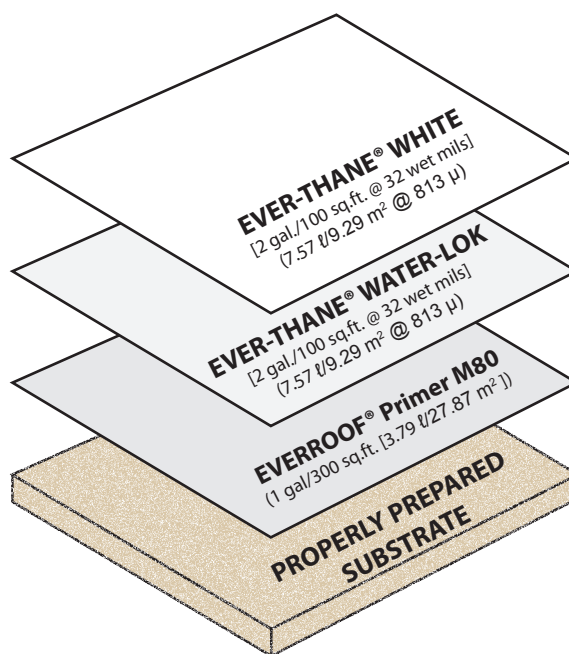
- (1) Material Only Warranty - No Charge
- (2) Labor & Material Warranty - For Approved Applicators Only
Fees will apply. Consult your Everroof representative.

See Warranty System Sheet for Dry Film Thickness Requirement.

REQUIRED MATERIALS

- Everroof Primer M80
- Ever-Thane Accelerator
- Ever-Thane Water-Lok
- Ever-Thane White
- Ever-Thane Fast Flash
- Ever-Fabric
- Polyurethane Caulking

20 YEAR SYSTEM COVERAGE for CONCRETE SYSTEMS



The EVER-THANE SYSTEM provides tenacious adhesion with an existing roof system to form a monolithic membrane. The result is a CRRC and ENERGY STAR system that exceeds all Title 24 requirements.


SYSTEM DESCRIPTION

The **EVER-THANE® SYSTEM** can be described by using three comprehensive products to cover and protect your roof:

- (1) EVERROOF® Primer M80, if applicable, is a two component, liquid applied, solvent based epoxy-polyamine primer with unique penetrating characteristic. It has quick/re-coat times and is low viscosity.
- (2) EVER-THANE® WATER-LOK is a versatile, low VOC, aromatic, single-component, moisture-cure, polyurea-urethane, coating designed as a base coat for concrete roof systems.
- (3) EVER-THANE® WHITE is a versatile, low VOC, aromatic, single-component, polyurea-urethane designed for application as a top coat or for repair work on concrete roof systems.



TECHNICAL DATA / PHYSICAL PROPERTIES

			1 gal. (3.79L) Can 5 gal. (18.93L) Pail 55 gal. (208.2L) Drum		
			1.5 gal. / 100 sq. ft. @ 24 wet mils 609.6μ (5.68L / 9.29 m ²)		
TECHNICAL DATA		BASE COAT EVER-THANE® WATER-LOK		TOP COAT EVER-THANE® WHITE	
Color		Terra Cotta		White	
Shelf Life		8 Months		8 Months	
Curing (75°F-24°C, 50% R.H.)		10-12 Hrs.		10-12 Hrs.	
PHYSICAL PROPERTIES					
Hardness Shore A, ASTM D-2240		50 ± 5%		80 ± 2%	
Tear Resistance, ASTM D-624		125 lbs./in. (17.71)		105 lbs./in. (18.39)	
Tensile Strength, ASTM D-412		800 psi (50 MPa)		1550 psi (10.69 MPa)	
Elongation, ASTM D-412		300% ± 100%		365%	
Specific Gravity		1.26		1.47	
% Solids by Weight, ASTM D-2369		92% ± 2%		85% ± 3%	
% Solids by Volume, ASTM D-2697		89% ± 2%		81% ± 3%	
Viscosity at 77°F (25°C)		20,000 - 35,000 cps		5000-7000 cps	
VOC, ASTM D-2369-81		50g/L (0.42lbs/gal)		48g/L (0.40lbs/gal)	
Reflectivity		-		0.79	
Emissivity		-		0.90	
SRI		-		0.99	
Fire Resistance		UL-790 Class "A"		UL-790 Class "A"	

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

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

- HVAC 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/obstructions
- Copings and flashings
- Sleepers & 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 of fluid-applied roofing by thoroughly cleaning all roof surfaces with a high pressure (2,000 - 2,500) (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) Make every effort to remove asphaltic roofing residue. Removal efforts must include use of methods such as pressure washing, scrapers, grinding, wire brushes, electrical drill wire-wheels, or other similar tools. Consider complete shot blasting and grinding

when necessary. For cracks and fissures less than 1/8" wide, and all joints, stress areas, and roof penetrations prime at the rate of 1/3 gal/100 sq. ft. (1.25ℓ/9.29 m²) @ 5 wet mils (127 μ), allow to dry. Then detail with EVER-THANE FAST FLASH™. All large gaps and cracks (greater than 1/4") shall be repaired using a high-quality concrete grout. Grout must be fully cured before application of coating products. Prime cured grout at the rate of 1/3 gal/100 sq. ft. (1.25ℓ/9.29 m²) @ 5 wet mils (127 μ), allow to dry then detail with EVER-THANE FAST FLASH™. EVER-THANE FAST FLASH™ shall extend a minimum of 3 inches (7.62 cm) beyond the edges of the repairs of gaps. (4) Round projections, machine legs, sign posts, guide wire straps, inside and outside corners, cant strips, etc. should be flashed using EVER-THANE FAST FLASH. Continue to seal watertight gutters, parapet walls, caps, and seal watertight all screws, seams, skylights, joints, pipes, voids, protrusions and any areas where water could enter through the roof. (5) Clean and seal all areas around drains watertight. For added strength consider adding Ever-Fabric into the Ever-Thane Fast Flash (6) Allow roof and other prepared surfaces to dry completely before proceeding with field priming and/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 take extra time and caution when applying the system within 2 to 6 hours of precipitation and/or when raw or freezing temperatures are experienced or anticipated. Do not apply over wet insulation or related materials.

COATING APPLICATION

Apply EVERROOF® Primer M80 to the substrate at a theoretical coverage rate of 1/3 gal/100 sq. ft. (1.25ℓ/9.29 m²) @ 5 wet mils (127 μ), and allow to cure. Then apply EVER-THANE WATER-LOK basecoat together with Ever-Thane Accelerator at the rate of 2.0 gal/100 sq. ft. (7.58 ℓ/9.29 m²) @ 32 wet mils (813 μ), allow to cure. Then apply EVER-THANE® WHITE topcoat with Ever-Thane Accelerator at the rate of 2.0 gal/100 sq. ft. (7.58 ℓ/9.29 m²) @ 32 wet mils (813 μ), to yield a total of 64 (1626 μ) wet mils of coverage (minimum requirement for 20 year material warranty). DO NOT EXCEED 1.5 GALLONS PER SQUARE (5.68ℓ per 9.29 m²) PER APPLICATION for EVER-THANE WATER-LOK or EVER-THANE WHITE. This will 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 and horizontals and higher slopes. 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 avoid pinholes and/or blisters. Actual required application rate will depend on system specified and length of warranty. For low areas that hold excessive ponding water, apply a liquid roof patch to level the sloped area prior to coating. 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" (9.52 mm) nap roller should be used when applying on smooth surfaces such as concrete.

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.