QUICK SPEC

Ure-A-Max

ROOF RESTORATION SYSTEM

The Hybrid Urethane Roof Restoration Solution

Ure-A-Max is a premier hybrid urethane system designed to restore and protect a wide range of flat roof membranes, including smooth and granulated asphaltic, structural concrete, single-ply (TPO, PVC, EPDM), and spray polyurethane foam. It leverages the exceptional durability and adhesion of Aromatic Urethane 520, paired with the superior UV and moisture resistance of Aliphatic Urethane 510-CA, which features a lower moisture vapor permeability value for enhanced performance.

This system provides facility managers and property owners with cost-saving advantages beyond leak prevention. It helps reduce maintenance expenses, lowers energy consumption, enhances overall roof performance, and extends service life—all at a fraction of the cost of a full roof replacement.

Basic Uses

The Urethane Roof Restoration System is a versatile and durable application designed to restore and protect a wide range of commercial and industrial roof substrates from weathering and moisture intrusion. It is especially effective as a protective coating membrane for entire roof surface, to use for spot repair, and to provide additional protection for flashing.

Features/Benefits

- Stops leaks and vastly improves performance
- Costs significantly less than a total roof replacement
- Substantially reduces maintenance and energy costs
- Extends service life by restoring the existing roof membrane
- Industry-leading UV stability, reflectivity, and durability
- Cures to form a seamless, watertight membrane
- Long-term StarGard Warranty plans available

Suitable Substrates

- Modified bitumen
- Built-up roofing
- TPO
- PVC
- EPDM
- Structural concrete
- Spray polyurethane foam

SURFACE PREPARATION 1

To ensure maximum adhesion, the roof is pressure washed to remove all dirt, dust, debris, and other foreign contaminants.

SEAMS/DETAILS 2

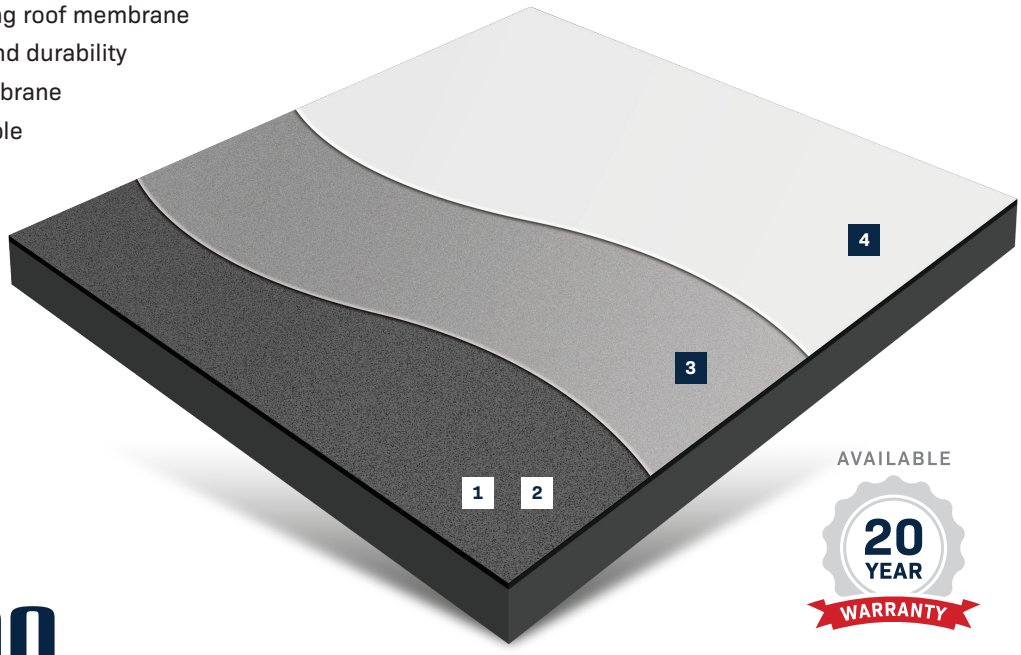
All seams and flashing details are coated with Urethane Brush-Grade 522 to help withstand the expansion and contraction of the roof structure.

BASE COAT 3

A base coat Aromatic Urethane 520 acts as a primer and provides the system with excellent strength, durability, flexibility, and adhesion.

TOP COAT 4

A top coat of Aliphatic Urethane 510-CA forms a seamless rubber-like membrane and provides superior UV protection and increased resistance to moisture penetration.



AVAILABLE 20 YEAR WARRANTY

American WEATHERSTAR®

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ADHESION TEST
To ensure a successful application, an adhesion test is recommended to ensure maximum adhesion of the Aromatic Urethane 520 base coat to the existing roof substrate(s).

PRE-INSPECTION
Before system application, pre-inspect the roof for necessary repairs. The inspection should include, but not be limited to:

- HVAC flashing
- Proper drainage
- Seams, terminations, reglets
- Roof penetrations
- Water leakage
- Sign or display anchorage
- Drains and location of drains
- Parapet roof detail
- Wet or damp insulation
- Coping and flashing

INSTALLATION TIPS
- All roof surfaces to be coated must be properly cleaned and prepared. Pressure washing at 3000-4000 psi is recommended.
- Existing coatings must be checked for proper adhesion. Before application, any loosely adhered coating must be removed and bare surfaces must be prepared, cleaned, and checked for compatibility. In some cases, the use of a primer may be necessary.
- Aliphatic Urethane 510-CA, Aromatic Urethane 520 may be applied using medium nap roller, synthetic brush, tank spreader, or airless spray equipment.
- Apply Aliphatic Urethane 510-CA, Aromatic Urethane 520 base coat to clean, dry, sound surfaces free of contaminants and other foreign matter.
- Depending on temperature and humidity, allow approximately 24 hours for urethane base coat to cure before applying the Aliphatic Urethane 510-CA. For technical assistance, contact your American WeatherStar Field Representative for more information.

TECHNICAL DATA

AROMATIC URETHANE 520	
Solids by Volume	70% ± 2
Elongation	350 ± 50%
Tensile Strength	975 ± 25 psi
Viscosity	2000 cps

ALIPHATIC URETHANE 510-CA	
Solids by Volume	76.7%
Elongation	230%
Tensile Strength	2,300 psi
Viscosity	100 KU

Please see product data sheets for complete technical data.

SUBSTRATE	TERM	BASE COAT	INTERMEDIATE COAT	INTERMEDIATE COAT	TOP COAT	TOTAL DFT*
BUR, Mod Bit	10 years	Urethane 520	–	–	Urethane 510-CA	30
	15 years	Urethane 520	Urethane 510-CA	–	Urethane 510-CA	40
	20 years	Urethane 520	Urethane 510-CA	–	Urethane 510-CA	45
TPO, PVC, EPDM	10 years	Urethane 520	–	–	Urethane 510-CA	25
	15 years	Urethane 520	–	–	Urethane 510-CA	30
	20 years	Urethane 520	Urethane 510-CA	–	Urethane 510-CA	40
Concrete	10 years	Urethane 520	Urethane 510-CA	–	Urethane 510-CA	38
	15 years	Urethane 520	Urethane 510-CA	–	Urethane 510-CA	45
	20 years	Urethane 520	Urethane 510-CA	Urethane 510-CA	Urethane 510-CA	55
SPF	10 years	Urethane 520			Urethane 510-CA	30
	15 years	Urethane 520	Urethane 510-CA		Urethane 510-CA	40

*Dry film thickness (DFT) is rounded to the nearest mil and is theoretical. Actual DFT varies depending on substrate, application technique, and waste factor.

NOTE: This document is intended as an overview of installation procedures only. Please refer to application guidelines for complete installation information. Published technical information is subject to change without notice. Please visit www.americanweatherstar.com or contact your Field Representative for current technical data.