

The Ultimate Flat Roof Restoration Solution

The Ure-A-Sil roof restoration system is the ultimate solution to restore and protect a variety of flat roof surfaces including modified bitumen, smooth and gravel BUR, EPDM, single-ply, concrete decks, and spray polyurethane foam. It combines the industry-leading durability and adhesion qualities of Aromatic Urethane 520 with the unsurpassed UV protection and weatherability of Silicone 410 or High-Solids Silicone 412.

The Ure-A-Sil System offers facility managers and property owners a variety of money-saving benefits. It does more than just stop leaks—it effectively reduces maintenance costs, lowers building energy consumption, improves performance, and extends service life. Best of all, the Ure-A-Sil System costs significantly less than a conventional roof replacement.

Basic Uses

The Ure-A-Sil 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
- Provides minimal interruption to business

Suitable Substrates

- Built-Up Roofs
- Concrete
- EPDM
- Modified Bitumen
- Single-Ply
- Spray Polyurethane Foam

SURFACE PREPARATION

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

1

SEAMS/DETAILS

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

2

BASE COAT

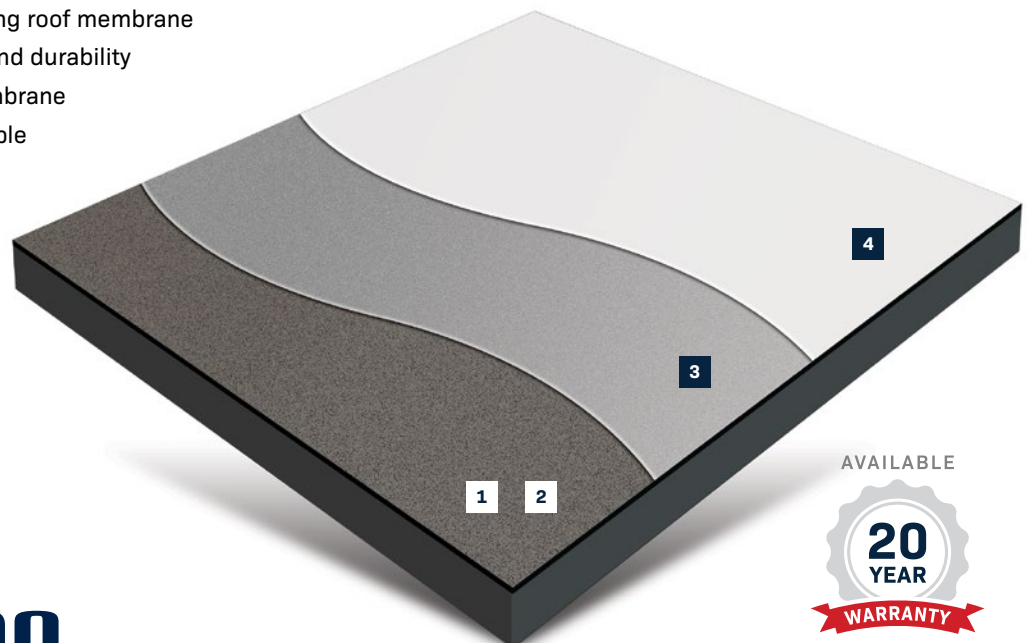
A base coat Aromatic Urethane 520 acts as a primer and provides the system with excellent strength, durability, flexibility, and adhesion.

3

TOP COAT

A top coat of Silicone 410/High-Solids Silicone 412 forms a seamless rubber-like membrane and provides industry-leading UV protection, reflectivity, and resistance to ponding water.

4



AVAILABLE



QUICK SPEC

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
- Single-ply seams
- Roof penetrations
- Sign or display anchorage
- Drains and location of drains
- Water leakage
- Seams, terminators, reglets
- Parapet roof detail
- Wet or damp insulation
- Coping and flashing
- Sleepers and pitch pockets

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.
- Silicone 410, High-Solids Silicone 412, and Aromatic Urethane 520 may be applied using medium nap roller, synthetic brush, tank spreader, or airless spray equipment.
- Apply Aromatic Urethane 520 base coat to clean, dry, sound surfaces free of contaminants and other foreign matter.
- Depending on temperature and humidity, allow 6-12 hours for urethane base coat to cure. Allow 2-8 for silicone top coat to cure. For technical assistance, contact your American WeatherStar Field Representative for more information.

TECHNICAL DATA

SILICONE 410

| | |
|------------------|---------|
| Solids by Volume | 69% ± 2 |
| Elongation | 318% |
| Tensile Strength | 500 psi |
| Reflectivity | 84% |
| Emissivity | .85 |

HIGH-SOLIDS SILICONE 412

| | |
|------------------|-------------|
| Solids by Volume | 96% ± 2 |
| Elongation | 170 ± 25 |
| Tensile Strength | 450 ± 50 |
| Reflectivity | Initial .87 |
| Emissivity | Initial .89 |

AROMATIC URETHANE 520

| | |
|------------------|--------------|
| Solids by Volume | 70% ± 2 |
| Elongation | 350 ± 50% |
| Tensile Strength | 975 ± 25 psi |
| Viscosity | 2,000 cps |

Please see product data sheets for complete technical data.

| SUBSTRATE | TERM | BASE COAT | INTERMEDIATE COAT | INTERMEDIATE COAT | TOP COAT | TOTAL DFT* |
|-------------------------|----------|--------------|-------------------|-------------------|------------------|------------|
| BUR Modified Bitumen | 12 years | Urethane 520 | - | - | Silicone 410/412 | 30 |
| | 15 years | Urethane 520 | - | - | Silicone 410/412 | 35 |
| | 20 years | Urethane 520 | Silicone 410/412 | - | Silicone 410/412 | 40 |
| EPDM Single-Ply | 12 years | Urethane 520 | - | - | Silicone 410/412 | 25 |
| | 15 years | Urethane 520 | - | - | Silicone 410/412 | 30 |
| | 20 years | Urethane 520 | Silicone 410/412 | - | Silicone 410/412 | 35 |
| Concrete | 12 years | Urethane 520 | Urethane 520 | - | Silicone 410/412 | 38 |
| | 15 years | Urethane 520 | Urethane 520 | - | Silicone 410/412 | 45 |
| | 20 years | Urethane 520 | Urethane 520 | Silicone 410/412 | Silicone 410/412 | 55 |
| Spray Foam | 12 years | Urethane 520 | - | - | Silicone 410/412 | 25 |
| | 15 years | Urethane 520 | - | - | Silicone 410/412 | 30 |
| | 20 years | Urethane 520 | Silicone 410/412 | - | Silicone 410/412 | 35 |

*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.

