

### 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
- 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.
- 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](http://www.americanweatherstar.com) or contact your Field Representative for current technical data.

