

# QUICK SPEC

## DESCRIPTION

The American WeatherStar Met-A-Sil premium metal roof restoration system is a silicone based fluid applied roofing system designed by AWS to restore and protect metal roofs. AWS developed this bright white and Energy Star® rated system based on the premium performance of AWS Silicone 410.

## BASIC USES

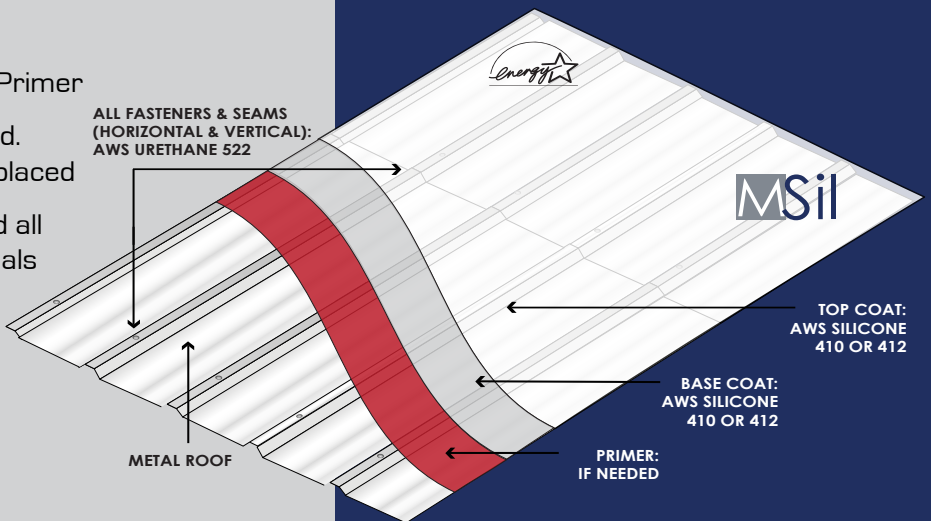
The AWS Met-A-Sil system is specifically formulated to seal, waterproof, and preserve metal roofing panel systems from the harmful effects of the sun, wind, and rain. The system's main components, AWS Silicone 410, provides superior elemental protection for metal roofing surfaces.

## BENEFITS

- » Watertight seal stops leaks & prevents rust
- » 100% tax deductible the year of installation
- » Expands life expectancy of metal roofs
- » Cool roof technology lowers interior cooling costs
- » Sustainable 12 & 15 year warranty options
- » No business interruption

## SYSTEM STEPS

- » Pressure wash
- » Look for and address problem areas
- » Any factory painted, previously coated, or rusted areas will be treated with AWS Primer
- » All seams are closed and securely fastened. Loose or missing fasteners must to be replaced
- » Waterproof vertical/horizontal seams and all fasteners with AWS flashing grade materials
- » Apply Base Layer of AWS Silicone 410
- » Apply Top Layer of AWS Silicone 410



# Met-A-Sil

PREMIUM ROOF COATING SYSTEM

over metal roof deck

## APPLICATION PROCESS

PRESSURE WASH,  
CHECK FOR PROBLEM  
AREAS & APPLY AWS  
PRIMER (IF NEEDED)



WATERPROOF SEAMS,  
FASTENERS, PENETRATIONS  
& TRANSITIONS W/AWS  
FLASHING GRADE MATERIAL



APPLY AWS  
SILICONE 410  
BASE COAT



APPLY AWS  
SILICONE 410  
TOP COAT



fluid-applied roof restoration



americanweatherstar.com

800.771.6643

## ADHESION TEST

To ensure successful application of the AWS Met-A-Sil roofing system, always perform an adhesion test with AWS Silicone 410 to ensure that the roof substrate will accept the coating.

## PRE-INSPECTION

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

- » HVAC Flashing
- » Proper drainage
- » Parapet Wall Condition
- » Sign or Display Anchorage
- » Drains & Location of Drains
- » Water Leakage
- » Seam, Terminators, Reglets
- » Roof Penetrations
- » Coping and Flashing
- » Sleepers & Pitch Pockets

## TECHNICAL DATA

### AWS URETHANE BRUSH-GRADE 522

Color: Silver  
 Viscosity: 30,000-40,000 cps  
 Tensile Strength: 975± 25 psi  
 Elongation: 350% ± 50%  
 Solids: 69% ± 2%  
 Permeability: .02 Perms  
 Clean Up: Xylene

### AWS SILICONE 410

Color: White, Gray, and Tan Standard – Custom colors available  
 Viscosity: 9,000 cps  
 Tensile Strength: 486 psi at 73°F ± 20 psi  
 Elongation (Initial): 267% at 73°F ± 20%  
 Solids: Volume: 69% ± 2%  
 Reflectivity (White): 84%  
 Clean Up: Virgin Mineral Spirits

## COVERAGE RATES

12 YEAR WARRANTY (20 MIL SYSTEM)	BASE COAT	TOP COAT
AWS Product	Silicone 410	Silicone 410
Coverage Rate	1 Gal/100 sq ft	1 Gal/100 sq ft

15 YEAR WARRANTY (26 MIL SYSTEM)	BASE COAT	TOP COAT
AWS Product	Silicone 410	Silicone 410
Coverage Rate	1.25 Gal/100 sq ft	1.25 Gal/100 sq ft

## INSTALLATION TIPS

- » All surfaces to be coated must be cleaned properly.
- » Pressure washing at 3000 - 4000 psi is recommended.
- » Any existing coating must be checked for good adhesion. Before application, any loosely adhered coating must be removed and bare surfaces must be prepared, cleaned and checked for compatibility.
- » Factory painted or previously coated roofs will be primed.
- » AWS Silicone 410 may be applied by conventional airless spray equipment. Contact your AWS Rep for details on applying the optional high solids AWS High Solids Silicone 412.
- » Apply AWS Silicone 410 only to clean, dry, sound surfaces free of loose particles or other foreign matter.
- » Applied coating will cure in 2 to 8 hours depending on temperature and humidity.

## RUSTY PANELS

Rust, also known as Iron Oxide, is formed by a chemical reaction in which iron oxidizes when in the presence of oxygen and water or excessive moisture. Iron Oxide lacks many of the structural characteristics of the original iron material and will continue to spread deeper into the material. If left alone, rust will almost always result in total failure of the panel. AWS Rust Primers are designed to neutralize existing rust as well as prevent it from advancing its damage.

## SKYLIGHTS

Skylights, if still within their serviceable life, can be renewed and restored with AWS Acrylic 230 clear liquid applied membrane.

## EQUIPMENT

Spray Applied - See AWS Spray Application Guides on AWS Silicone 410, and 412

## STORAGE & HANDLING

Keep containers closed, store in a dry, cool place away from heat, sparks, open flame, and moisture.

