

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

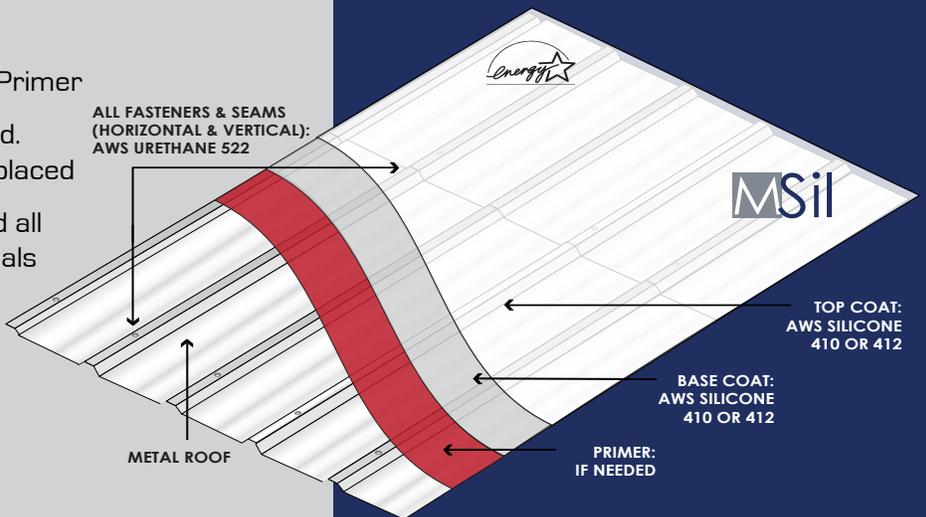
The AWS Met-A-Sil system is specifically formulated to seal, waterproof, and preserve metal roofing panel systems from the harmful effects of the sun, wind, and rain. The system's main components, AWS Silicone 410, provides superior elemental protection for metal roofing surfaces.

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 metal 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 Silicone412.
- » 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.



fluid-applied metal roof restoration

THIS QUICK SPEC IS MEANT ONLY AS AN OVERVIEW OF INSTALLATION PROCEDURES. IT IS NOT MEANT TO REPLACE THE DETAILED APPLICATION GUIDELINE. BE SURE TO REVIEW THE COMPLETE APPLICATION GUIDELINE PRIOR TO BEGINNING ANY PROJECT.

Published technical data and instructions are subject to change without notice. Contact your local AWS representative or visit our website for current technical data and application guidelines.