

# SINGLE-PLY QUICK SPEC

## DESCRIPTION

The American WeatherStar Envir-O-Sil environmentally friendly roofing system is a silicone based fluid applied roofing system designed by AWS to restore and protect single-ply roofs. AWS developed this bright white, environmentally aware system based on the premium performance of AWS High Solids Silicone 412.

## BASIC USES

American WeatherStar's Envir-O-Sil is a proven, fluid applied roofing system designed to restore and protect single-ply commercial roofs from water intrusion and the sun's harmful UV rays. It is especially effective as a protective membrane to coat the entire roof, make repairs, and provide additional protection for curbs and flashings.

## BENEFITS

- » Handles ponding water
- » Requires standard equipment
- » Extreme adhesion, durability & UV stability
- » High solids option available
- » Sustainable 10 year warranty options
- » No business interruption
- » VOC compliant in all 50 states

## SYSTEM STEPS

- » Apply Etching Primer 920 and let sit 15 minutes
- » Pressure wash
- » Look for and address problem areas
- » Waterproof splits, transitions, penetrations, and areas of concern using a slurry of AWS Microfibers 1000 and AWS High Solids Silicone 412
- » Apply Base Layer of AWS High Solids Silicone 412
- » Apply Top Layer of AWS High Solids Silicone 412



fluid-applied metal roof restoration

# Envir-O-Sil

LOW-VOC ROOF COATING SYSTEM

over single-ply roof

## APPLICATION PROCESS

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



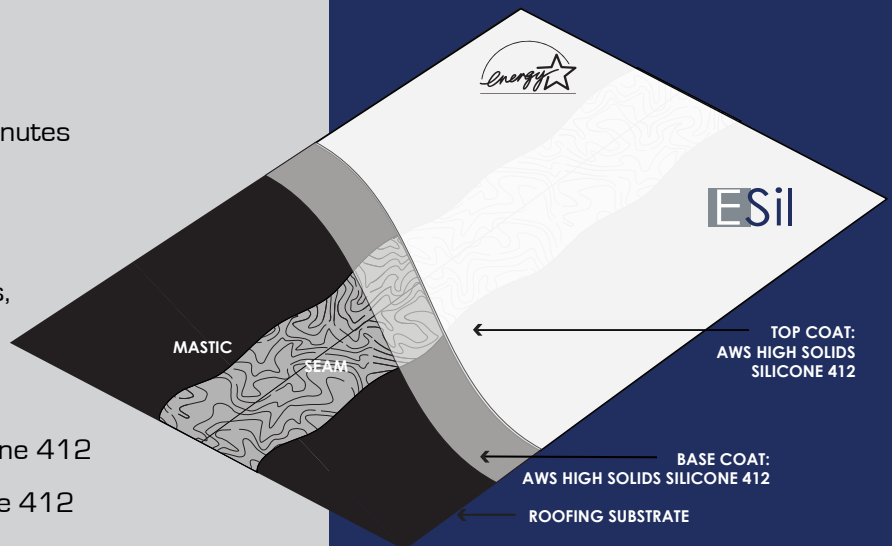
WATERPROOF SEAMS,  
FASTENERS, PENETRATIONS  
& TRANSITIONS W/AWS  
FLASHING GRADE MATERIAL



APPLY AWS  
HIGH SOLIDS SILICONE 412  
BASE COAT



APPLY AWS  
HIGH SOLIDS SILICONE 412  
TOP COAT



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## ADHESION TEST

To ensure successful application of the AWS Envir-O-Sil roofing system, always perform an adhesion test with AWS High Solids Silicone 412 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
- » Water Leakage
- » Seam, Terminators, Reglets
- » Roof Penetrations
- » Coping and Flashing
- » Sleepers & Pitch Pockets
- » Wet or Damp Insulation

## TECHNICAL DATA

### AWS ETCHING PRIMER 920

Color: Clear to Light Pink  
 Consistency: Same as Water  
 Clean Up: Water

### AWS HIGH SOLIDS SILICONE 412

Color: White - Gray - Tan  
 VOC: < 50 Grams/Liter  
 Tensile Strength: 331 psi at 73°F  
 Elongation: >192% at 73°F  
 Solids: Volume: 96% ± 2%  
 Reflectivity (White): Initial .87  
 Clean Up: Virgin Mineral Spirits

## COVERAGE RATES

10 YEAR	BASE COAT	TOP COAT
AWS Product	High Solids Silicone 412	High Solids Silicone 412
Coverage Rate	.75 Gal/100 sq ft	.75 Gal/100 sq ft

## INSTALLATION TIPS

- » All surfaces to be coated must be cleaned properly.
- » Apply AWS Etching Primer 920 to a dry substrate with a garden style pump sprayer (400 sq ft/g), then pressure wash at a minimum of 3000 psi. (4000 psi 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.
- » AWS High Solids Silicone 412 may be applied by medium nap rollers, soft brushes, SuperSpreader, or conventional airless spray equipment.
- » AWS High Solids Silicone 412 only to clean, dry, sound surfaces free of loose particles or other foreign matter.
- » Applied base coat will cure in 2 - 8 hours depending on temperature and humidity.
- » Applied top coat will cure in 2 - 8 hours depending on temperature and humidity.

## EQUIPMENT

Spray Applied - See AWS Spray Application Guides on AWS High Solids Silicone 412, AWS High Tensile Urethane 500 Base Coat, and other system products required.

SuperSpreader - Follow manufacturer's recommendations.

Brush - Good quality synthetic bristle brush.

Roller - 1/4 - 3/8 nap

## STORAGE & HANDLING

Keep containers closed, store in a dry, cool place away from heat, sparks, open flame, and moisture. Keep material stored above 65°F (18°C) and on wood pallets and/or off concrete floor.



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.