



PO Box 6256
Mobile AL, 36606
1-800-771-6643

PRODUCT DATA SHEET

Silicone 412



DESCRIPTION

Silicone 412 is a ready-to use, high solids, single component moisture cured silicone coating that serves as the standard specification for liquid applied silicone coating used in spray polyurethane foam roofing, single-ply restoration, and for top coating several American WeatherStar Fabric Systems.

ADVANTAGES

- Superior Protection - forms a durable, weather resistant "rubber-like" seal.
- Excellent UV protection.
- Superior adhesive and cohesive strength.
- 95% Solids. Uses less material for same dry film thickness
- Low VOC's

BASIC USES

Silicone 412 provides elemental protection for architectural surfaces such as vertical walls, masonry, concrete, metal, single ply roof membranes and sprayed-in-place Polyurethane foam systems.

INSTALLATION

Mixing: Mix before application to assure uniform color and consistency.

Surface Prep: All surfaces to be coated must be clean, dry, and paintable. It may be necessary to power wash and/or prime to enhance adhesion. See application specification for more details.

Application: This product may be applied directly to any clean, dry surface. Polyurethane foam should be coated within 24 hours of application. Apply by spray, brush, or roller as received. No thinning or reducing is necessary. Subsequent coats should be applied within 24 hours of prior applications to insure full and uniform adhesion.

It is not recommended that this product be applied at temperatures below 50°F. (10°C.), or if rain is expected within 1 hours of application. Silicone 412 may be applied at lower temperatures, however the cure time will be extended.

Clean-Up: Clean spray equipment with Mineral Spirits. Recirculate through lines and gun until residual is removed.

Cure: Applied coating will cure in 2 to 8 hours depending on temperature and humidity.

WARRANTY

American WeatherStar warrants that the material supplied will meet or exceed physical properties as published. The contractor guarantees that workmanship will be free of defects in coating application. Since performance of previously installed substrate is beyond the control of American WeatherStar or the contractor, requests for additional warranty coverage shall be subject to prior approval by American WeatherStar.



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MAINTENANCE

Periodic maintenance of all American WeatherStar products, including cleaning, will ensure extended service life and maintain reflectivity.

APPLIED PRODUCT DATA

Weathering / UV Resistance:	No degradation.	ASTM G-53
Chemical Resistance:	Excellent solvent and chemical resistance.	
Tensile Strength:	331 PSI at 73°F	ASTM D-2370
Elongation:	>192% at 73°F	ASTM D-2370
Tensile, set at 100% Elongation:	Nil.	
Durometer Hardness:	50± 5 points (Shore A)	
Permeability:	> 4 +	ASTM E-96, Procedure B
Adhesion:	Excellent adhesion to polyurethane foam and other substrates.	
Reflectivity (White):	Initial .87	C-1549
Emissivity (White):	Initial .89	C-1371
Cure Time:	2-8 Hours (Temp. & Humidity Dependent)	
Drying Time:	1 hour at 77°F (Temp. & Humidity Dependent)	

PACKAGED PRODUCT DATA

Colors:	White, Light Grey, and Dark Grey. Special colors are available upon request at additional charge.	
Coverage:	Depends on Substrate	
Solids:	Weight: 96% ± 2 Volume: 96% ± 2	ASTM D-1644 ASTM D-2697
V.O.C.	< 10 Grams/Liter	ASTM D-3960 EPA Method 24
Flash Point (COC):	290°F	ASTM D-92
Shelf Life:	6 months when stored between 35°F and 75°F. (Unopened Containers.)	
Packaging:	5 gallon buckets, 55 gallon drums	