



250 HS SILICONE



PRODUCT DESCRIPTION

A single component, ready to use, high solids, moisture cured, fluid applied silicone coating.

GENERAL PROPERTIES

Breathable membrane possessing superior weathering and water resistance characteristics.

RECOMMENDED USES

Provides elemental protection for architectural surfaces such as vertical walls, masonry, concrete, metal, single ply membranes, and spray in place polyurethane foam.

PRODUCT APPROVALS

& RATINGS

(White only)



(Lighter colors only)



(All colors)



NOA No.: 23-050.03
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Approval Date: 08/03/23



SYSTEM OPTIONS

This product can be used as a topcoat over asphalt elastomeric in conjunction with the IPP ABB-100 Bleed Block Primer and polyurethane elastomeric base coats where improved or aesthetic characteristics are desired.

PONDING WATER

The 250 HS Silicone membrane is not affected by ponding water, however the National Roofing Contractors Association considers ponding water on any roof is undesirable and recommends that all roof systems be designed and built to ensure positive drainage. (Please see the NRCA Roofing and Waterproofing Manual)

FLAMMABILITY CHARACTERISTICS

The 250 HS Silicone coatings carry a class "A" Non-Combustible and Class "B" Combustible credentials as tested under UL 790 procedures over spray foam and single ply roofing systems. Contact Instacoat Premium Products for more specific information.

APPLICATION EQUIPMENT

This product may be sprayed, brushed, or rolled. Due to the high viscosity of the 250 HS Silicone, high pressure airless systems can be used. Please contact Instacoat Premium Products for the recommended airless specifications prior to use. **DO NOT USE** hoses that have been used for other waterborne coatings because the liner may absorb moisture and initiate the 250 HS to begin the curing process and plug the lines.



SURFACE PREPARATION

All surfaces to be coated must be clean and dry. It may be necessary to power wash and/or prime to enhance adhesion.

MIXING

Do not thin. Product may separate after shipping and storage (though it may still look mixed). Mix well before use. We recommend the use of a 3/4 horsepower or larger air operated mixer with a blade capable of uniformly mixing the entire container. When product is in a 5 gallon pail use 3" minimum diameter mixing blade and mix 5-10 minutes prior to use. Hand mixing with a suitable mixing blade is acceptable. When product is in drums use a 6" minimum diameter mixing blade and mix for a minimum of 30 minutes prior to use. After opening a container, try to use material up as soon as possible.

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250 HS Silicone

WEATHER RESTRICTIONS

It is not recommended that the 250 HS be applied below 50°F/10°C, or if rain is expected within 1 hour of application. Although it's not recommended, the 250 HS may be applied at lower temperatures but the curing time may be extended.

APPLICATION PROCEDURES

The 250 HS silicone should be applied to a **Clean Dry Surface**. Polyurethane base coats should be coated within 24 hours. Subsequent coats should be applied within 24 hours of prior application to insure full uniform adhesion. Coating can be applied in 1 or more separate applications, each applied at right angles to the previous coat. Coating must be evenly applied and pin hole free. Before applying a subsequent coat of this product to the previous coat it must be completely dry and cured. If the previous coat is contaminated it must be cleaned before any remaining coats can be applied. The coating must be extended beyond the substrate to create a self terminating flashing. Due to the bonding agent present it may be applied up to 40 mil in a one coat application without losing any adhesion. The coating will cure in 2-8 hrs. depending upon humidity and temperature. Consult IPP for a recommended dry film thickness.

SAFETY PRECAUTIONS

Keep cleaning solvents away from all sources of heat, sparks, flame, lighted smoking materials, or any other ignition source. Pumping equipment should be grounded to avoid accidental ignition due to static sparks. Avoid breathing solvent vapors. While using cleaning solvents use the proper safety equipment according to the manufacturer. Use the appropriate safety precautions during application. Always read the technical information and SDS prior to use.

CLEAN UP

Clean application equipment containing uncured material using VM&P Naphtha or Mineral Spirits. The 250 HS cures by reacting with moisture and should not be left in or on any application equipment. Improper cleaning of application equipment will result in the equipment being inoperable.

AVAILABILITY

5 Gallon Pail
55 Gallon Drum
250 Gallon Tote by special order.

COLORS

White, black, tan and gray are the standard colors. Custom colors are available by special order.
The 250 HS is also available in Clear.

LIMITATIONS

Surface must be clean and dry prior to application. Do not apply over wet substrates or when inclement weather is imminent. Store in a cool, dry area. Do not store in direct sunlight. The 250 HS silicone has a shelf life of 2 years.

PHYSICAL PROPERTIES - Testing Specimen: 20mil dry film

Test	Method	Result
Tensile Strength	ASTM D-2370	352 PSI @73° F 482 PSI @ 0° F
Elongation	ASTM D-2370	184% @73° F 204% @ 0° F
Tear Resistance	ASTM D-624	39.5 lb. f/in (die C)
Viscosity	Brookfield RVF	12,000 CPS
Permeance	ASTM E-96 BW	5.9
Moisture Vapor Permeability	ASTM E-96 B	0.08
Temp Stability		-80° F to 350° F
Water Absorption	ASTM D-471	.1% weight two weeks @ 75° F.
Weathering / UV resistance	ASTM D-6694	No degradation 5000 hours
Specific Gravity		1.3 @ 77° F
Tack Free	ASTM D-3930 Temp/ Humidity Dependent	1 hour
VOC	ASTM D-2960 EPA Method 24	<10 G/L
Durometer Hardness	ASTM D-2240	50 ±5
Solids by Weight	ASTM D-1644	96% ±2
Solids By Volume	ASTM D-2697	96% ±2
Maximum Continuous Service Temp.		185° F / 85° C
Flash Point: COC	ASTM D-92	290° F / 143° C
Cure Time	@ 100° F / 90% RH @ 40° F / 20% RH	Max 2 hours Max 8 hours
SRI (White)	CRRC / Energy Star	113 - Initial 90 - 3 Year
Solar Reflective (White)	CRRC / Energy Star	.89 - Initial .73 - Weathered
Thermal Emittance (White)	CRRC / Energy Star	.90 - Initial .88 - Weathered

Disclaimer

To the best of our knowledge, all technical data contained herein is true and accurate as of the date of the issuance and subject to change without prior notice. User must contact Instacoat to verify correctness before specifying or ordering. We guarantee our product to conform to the quality control standards established by Instacoat. We assume no responsibility for coverage, performance or injuries resulting from use. Liability if any, is limited to replacement of the product. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY INSTACOAT EXPRESSED OR IMPLIED, STATUTORY, BY OPERATION OF LAW, OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

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