

IPP Silicone Trowel Grade



PRODUCT INFORMATION

Product Type: A ready-to use, high solids, single component, moisture cured, Trowel Grade silicone.

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 sprayed-in-place urethane foam systems.

Product Limitations: Not recommended for continuous immersion service, for use in cryogenic tank, or cold storage roofing applications without a vapor barrier, or directly over modified Bitumen, asphalt or coal tar built-up roofing systems without a sealer.

Ponding Water:

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

Please consult Instacoat Technical Department for any specific questions regarding the application of this product.

Flammability Characteristics: 250 HS Series Silicone Coatings carry 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 specific information.

Surface Preparation: All surfaces to be coated must be clean, dry, and paintable. It may be necessary to power wash and or prime to enhance adhesion.

Mixing Procedures: No thinning or reducing is necessary

Weather Restrictions: It is not recommended that this product be applied at temperatures below fifty degrees Fahrenheit, or if rain is expected within one hour of application. The 250HS Silicone Trowel Grade may be applied at lower temperatures; however the cure time will be extended.

Safety Precautions: Installers should read and understand all technical documents and SDS prior to installation.

Clean Up: Cleanup of equipment and tools utilizing VM&P Naphtha or mineral spirits. Do not allow equipment and tools with residual 250 HS Silicone Trowel Grade for prolonged periods of time.

PHYSICAL PROPERTIES:

Material tested complies with all the requirements of ASTM D-6694-01 Standard Specification Trowel Grade Silicone Coating

Tensile Strength:	352 PSI at 73°F. 482 PSI @ 0°F.	(ASTM D-2370)
Elongation: (break)	184% at 73°F. 204% @ 0°F.	(ASTM D-2370)
Tear Resistance: (Die C), lb f/in	39.5	(ASTM D-624)
Viscosity: (Brookfield RVF)	Typical 8,000 to 12,000 cps	#5 Spindle 20 rpm @ 77°F
Permeance: US Perms	5.9 ±	(ASTM E-96) Procedure B
Tensile, set at 100% Elongation:	Nil.	
Temperature Stability Range:	-80 °F. to 350°F. (-37C. to 177C)	
Water Absorption:	0.1 weight % after two weeks at 75 F. (24 C.)	(ASTM D-471)
Weathering / UV Resistance:	No degradation 5000 hrs	(ASTM D-6694)
Specific Gravity:	1.30 at 77°F. (25C.)	
Tack Free Time:	1 hour	Temp. & Humidity Dependent
VOC:	< 10 Grams/Liter	(ASTM D-3960) EPA Method 24
Durometer Hardness:	50± 5 points	(ASTM D-2240) Shore A
Solids Content By Weight:	96% ± 2	(ASTM D-1644)
Solids Content By Volume:	96% ± 2	(ASTM D-2697)
Maximum Continuous Service Temperature:	185°F (85°C)	
Flash Point: (COC)	290°F. Minimum 2 hrs	(ASTM D-92) @ 100 Deg F & 90% Humidity
Cure Time:	Maximum 8 hrs (UNOPENED CONTAINERS): 6 Months	@ 40 Deg F & 20% Humidity
Shelf Life:	*** When Stored Between 35°F. and 75° F. ***	



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