

# HS 9600 SILICONE ROOF COATINGS



## HIGH SOLIDS / V.O.C. COMPLIANT FOR PROFESSIONAL USE ONLY

### PRODUCT INFORMATION

**PRODUCT TYPE:** A ready to use high solids, single component moisture cured Alkoxy formulation 100% silicone.

**GENERAL PROPERTIES:** A breathable and weatherproof roofing membrane resistant to degradation from UV and natural weathering.

**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. Restores and extends the life of: TPO EDPM, Metal Asphalt, PVC, SBS Granulated Modified Bitumen, Hypalon, Concrete No primer required for most of the above substrates.

**PRODUCT LIMITATIONS:** Not recommended for continuous immersion service, for use in cryogenic tank, or cold storage roofing applications without a vapor barrier, do not use on pedestrian, deck or frequent foot traffic bearing surfaces.

**PONDING WATER:**

- The Membrane 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 Technical Department for any specific questions regarding the application of this product.

**FLAMMABILITY CHARACTERISTICS:**

High solids 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 Distributor refer to the UL directory for specific information.

**STANDARD COLORS:**

White, Light Grey, Dark Grey and Tan. Special colors are available upon request at additional charge. Please allow up to three weeks additional time for custom colors.

**STORAGE & SHELF LIFE:**

PG 9600 can be stored in unheated warehouses during the cooler months without risk of freezing. Shelf list is 18 months from date of manufacture when properly stored.

HMIS® RATING:	
HEALTH	2
FLAMMABILITY	2
PHYSICAL HAZARDS	0

### PHYSICAL PROPERTIES

PROPERTY	VALUE <sup>(1)</sup>	TEST METHOD
<b>Solids Content</b>	Volume	90
	Weight	91
		ASTM D1644-01 Modified
<b>Tack Free Time</b>	20-30 minutes	ASTM D3960
<b>Skin-Over Time</b>	10-15 minutes	WPSTM C-560
<b>Viscosity:</b>	22,000 centipoises	ASTM D2196
<b>Tensile Strength</b>	204 psi (1.41 MPa)	ASTM D2370
<b>Elongation</b>	542%	ASTM D2370
<b>Durometer Hardness Shore A</b>	36	ASTM D2240
<b>VOC</b>	< 24 g/L	EPA Method 24
<b>Solar Reflectance Initial<sup>(2)</sup></b>	88%	ASTM C1549
<b>Emittance Initial<sup>(2)</sup></b>	0.90	ASTM C1371
<b>SRI Value Initial<sup>(2)</sup></b>	111	ASTM E1980
<b>SRI Value Aged<sup>(2)</sup></b>	103	ASTM E1980
<b>Permeance</b>	9.3 perms	ASTM E96 (BW)
<b>Tear Resistance</b>	32 lbf/in.	ASTM D624
<b>Low Temperature Flexibility</b>	Pass	ASTM D522 (B)
<b>Resistance to Wind Driven Rain</b>	Pass	TT-C-555B

(1) Typical data are average data and are not to be used as or to develop product specifications.

(2) Values derived from testing to PG 9600 (white), weathering test in progress.

**ORDERING INFORMATION:**

Available in 5-gallon pails (19 liters), and in 55-gallon drums containing 50 gallons (189.3 liters.)

Weight 10.8 lb per gallon  
Shelf life 18 months from date of manufacturer

**SHIPPING INFORMATION:**

CONTAINER	SIZE	CLASS
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5 Gal.	55	
50 Gal.	55	

D.O.T. Classification: Roof Coating, Not Regulated, NFMF #170080



# HS 9600 SILICONE ROOF COATINGS

## HIGH SOLIDS / DO NOT THIN

### APPLICATION PROCEDURES

**SURFACE PREPARATION:** PG 9600 silicone roof coating can be applied to itself as well as a variety of roofing materials and substrates including: single ply membranes (TPO, PVC, EPDM, CSPE, and Hypalon), spray-applied polyurethane foam, metal, concrete, and common parapet/coping materials. Asphaltic substrates such as modified bitumen, smooth BUR, and granulated cap sheet may require bleed blocker. Surfaces to which PG 9600 silicone roof coating is to be applied must be clean, dry, structurally sound and free of loose particles, dirt, dust, oil, frost, mildew and other contaminants. Damage to the underlying roof system, such as cracks, openings, holes, etc. should be properly repaired prior to application. Saturated substrates must be removed and repaired appropriately. Users of PG 9600 silicone roof coating should verify that suitable adhesion can be attained to all existing roofing materials to be coated prior to large scale application of the coating. It is recommended that a test patch be cleaned and coated with PG 9600 silicone roof coating to verify the effectiveness of the asphalt bleed cleaning method and adhesion to the surface(s).

**APPLICATION PROCEDURES:** PG 9600 silicone roof coating should be applied as received and dilution with solvent is not recommended. If settling in the package has occurred, stir or shake the material prior to use. Care should be taken to avoid overspray onto adjacent building materials, vehicles, plants, etc. Overspray can be cleaned up before it has cured by wiping alternately with solvent and dry rags. Cured material can be removed from surfaces with a razor blade, or scrubbed off with steel wool or synthetic abrasive pads and solvent. To control overspray, avoid spraying in winds that may cause drift. Surfaces not intended for coating should be masked or covered.

PG 9600 silicone roof coating should be sprayed or rolled ensuring uniform build and thorough coverage and can be applied in one coat. If applying in multiple coats, allow adequate time between each coat for the coating to cure before applying additional coat. Final cured film thicknesses must be free of voids, pinholes, cracks or blisters.

Can be applied in one coat up to 48 mils

**APPLICATION TEMPERATURE:** PG 9600 silicone roof coating can be applied throughout the year as long as the substrates being coated are completely dry. Frost and/or moisture will interfere with adhesion. Lower temperatures will lengthen the skin over, tack free and ultimate cure time and may require an overnight cure in winter months to allow the top coat application to proceed (film build may not be sufficient to allow walk over). Higher temperatures will accelerate the cure rate and decrease the open time of the coating. Contact manufacturer if applying to substrates over 120° F (49° C).

**APPLICATION EQUIPMENT:** PG 9600 silicone roof coating can be applied by spraying, rolling or brushing. PG 9600 silicone roof coating works with most commercially available spray application equipment that can deliver a minimum of 3,300 psi at the spray tip for at least 2.2 gallons per minute. Always use components rated for the required pump pressure. Hoses should be vapor lock type for prevention of moisture contamination. Contact MPM technical services for equipment recommendations.

Cleanup of spray equipment containing uncured material may be accomplished by flushing with mineral spirits or toluene. **DO NOT USE** water or alcohol based solvents.

PG 9600 silicone roof coating cures by reacting with moisture, thus it should not be left in pumping equipment and hoses for prolonged periods unless equipment contains moisture lock hoses, fittings and seals. Equipment without moisture lock hoses, fittings and seals may transmit sufficient moisture vapor to gradually form cured material on hose walls and at unsealed connections. This can cause increased operating pressures and flow restriction.

**WEATHER RESTRICTIONS:** Inclement weather may negatively affect uncured PG 9600 silicone roof coating by displacement of uncured material; therefore, application of coating should not proceed if heavy rain, hail or snowfall is impending or expected within 24 hours of application.

**DO NOT USE** hose that has been used for Acrylics or other waterborne coatings because the liner absorbs moisture and initiates the silicone cure process.

**SYSTEM OPTIONS:** This product can be used as a topcoat over polyurethane elastomeric base coats where improved traffic and impact resistant characteristics are required.

**RECOATING PROCEDURES:** This product may be used to re-coat existing spray-in-place roofing systems. Surface to receive re-coat must be thoroughly cleaned using power scrubber, pressure washer, chemical cleaners, or air wand. Surface must be completely dry before applying re-coat.

**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. Use an appropriate MESA/NIOSH approved respirator when exposure can exceed recommended PEL. This product is not recommended for interior use. Additional care must be taken to prevent roof top HVAC equipment from introducing evaporating solvent into interior areas during application. Building occupants should be warned of spray operations in process.

Installers should exercise caution during spray processes to avoid falls caused by stepping into slippery wet coating. Installers should read and understand all technical and informational literature on this product, including the MSDS, prior to use of the product.

**CLEAN UP:** Cleanup of spray equipment containing uncured material may be accomplished by flushing with VM&P Naphtha or mineral spirits. HS 9600 cures by reacting with moisture and should not be left in spray guns, pump equipment and hoses for prolonged periods unless equipment contains moisture lock hoses, fittings and seals. Equipment without these components will transmit sufficient moisture vapor to gradually form cured material on hose walls and at unsealed connections potentially causing an increase in operating pressure and material flow restriction.