

HarcoSil 19-97

Silicone roof coating

Product Description

HARCOSIL 19-97 (white) silicone roof coating is a high performing protective barrier for a variety of architectural surfaces and roofing substrates. Upon cure, HARCOSIL 19-97 forms a durable, breathable and weatherproof barrier that is highly resistant to degradation from UV and natural weathering.

Key Features and Typical Benefits

- **Silicone Durability** – Cured silicone rubber exhibits excellent long-term resistance to natural weathering including: extreme temperatures, ultraviolet radiation, rain and snow.
- **VOC Compliant** – High solids solvent-free formulation and low Volatile Organic Compounds content is well below the current limits of California’s relevant Air Quality Management Districts.
- **Ease of Use** – Can be applied with common airless equipment, roller or brush.
- **Versatile Application** – HARCOSIL 19-97 is a single component material that requires no mixing of separate components and can be applied by spray, roller or brush.
- **High Build Formulation** – Allows for single coat application and hangs on peaks without sagging.
- **Storage & Shelf Life** – HARCOSIL 19-97 can be stored in unheated warehouses during the cooler months without the risk of freezing. Shelf life is 18 months from date of manufacture when properly stored.

Technical Services

Additional technical information, literature, laboratory testing and application engineering are available upon request. Any technical advice furnished by Harco Americas concerning any use or application of any coating is believed to be reliable but Harco Americas makes no warranty, expressed or implied, of suitability for use in any application for which such advice is furnished.

Typical Physical Properties

Property	Value ⁽¹⁾	Test Method
Solids Content, Volume	90 ±2%	ASTM 2697
	Weight	91 ±2%
Tack Free Time	20-30 minutes	ASTM D3960
Skin-Over Time	10-15 minutes	WPSTM C-560
Viscosity	15,000 centipoises	ASTM D2196
Tensile Strength	204 psi (1.41 MPa)	ASTM D2370
Elongation	542%	ASTM D2370
Durometer Hardness Shore A	36	ASTM D2240
VOC	<24 g/L	EPA Method 24
Solar Reflectance ⁽²⁾	88%	ASTM C1549
Emittance ⁽²⁾	0.90	ASTM C1371
SRI Value ⁽²⁾	111	ASTM E1980
Permeance	9.3 perms	ASTM E96 (BW)
Tear Resistance	32 lbf/in.	ASTM D624
Low Temperature Flexibility	Pass	ASTM D522 (B)
Resistance to Wind Driven Rain	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 of HARCOSIL 19-97 (white), weathering test in progress.

Installation Considerations

Surface Preparation

HARCOSIL 19-97 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 which may require bleed blocker. Surfaces to which HARCOSIL 19-97 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 HARCOSIL 19-97 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 HARCOSIL 19-97 to verify the effectiveness of the cleaning method and adhesion to the surface(s).

