

HarcoSil 30-128 17-HSS-30-128

Silicone Roof Coating

Professional Use Only

DESCRIPTION

One component, liquid-applied, silicone-based, roof coating which cures with the humidity of atmosphere to form a strong, elastic, and impermeable to water, membrane.

MAIN CHARACTERISTICS

- Easy to apply by brush, roller or airless spray.
- Long-lasting waterproofing and protection.
- Highly resistant to stagnant water. Does not peel off.
- Forms a seamless membrane without joints which is 100% bonded to the substrate. Even when damaged, water does not spread to the entire surface of the substrate, and the membrane can easily be repaired locally.
- Excellent resistance to weather conditions: rain water, frost, UV rays.
- Excellent elastic properties even at very low temperature (-30 °C). Excellent crack-bridging properties.
- Excellent thermal resistance. The membrane does not turn soft or tacky at high temperatures (+80 °C).
- Excellent adhesion on several substrates without use of primer. Special primers are available to cover almost all type of substrates.
- Water vapour permeable. Does not cause moisture accumulation on the ceiling.
- Good resistance to chemicals and detergents.
- High reflection of solar energy (only in white colour) and significant reduction of the temperature inside the building during summer.
- Does not release any dangerous substances once fully cured.
- Zero chalking effect.
- Cost efficient.
- Color: available in white, grey and red. More colors available upon demand.

APPLICATION FIELDS

HARCOSIL 30-128 is ideal for insulating vertical and horizontal surfaces. Due to the excellent resistance to sunlight and its hydrophobicity, it is suitable for waterproofing flat roofs as a final coating product. Ideal for protection and waterproofing of roofs insulated with polyurethane foam or polystyrene boards.

SURFACE ACTIVATION:

HARCOSIL 30-128 can also be applied without the use of a primer. However, the use of Harcoat PU BB-Primer is recommended to improve the mechanical properties of the surface of the concrete. Wet substrates should generally be avoided. In special occasions of moist concrete. For application on top of bitumen-based coatings or bitumen felts, it is recommended to use Harcoat PU BB-Primer 2K to avoid the blistering of the substrate. For non-absorbent surfaces like ceramic tiles or metal substrates no primer is required.

APPLICATION INSTRUCTIONS:

HARCOSIL 30-128 is applied by roll, brush or air-gun even in a single thick layer up to a consumption of 1,6lt / sqm. For improved mechanical and crack-bridging properties, it is recommended to apply HARCOSIL 30-128 together with NEPTUNE COATINGS GEOTEXTILE (non-woven and needle-punched polyester geotextile of 120 g/m²). The geotextile is applied on top of the freshly laid first coat of HARCOSIL 30-128, before the application of the second and the third layer. The use of HARCOSIL 30-128 together with geotextile is highly recommended for sealing the areas of joints and cracks, as well as the corners between the floor and the wall or any other connection such as chimneys, bases of solar panels, etc. Furthermore, the use of HARCOSIL 30-128 in combination with geotextiles is also recommended for waterproofing roofs with cementitious screeds which have the tendency to crack. Time interval between each coat is at least 3 h and not more than 48 h. When primer is applied, the first coat of HARCOSIL 30-128 can be applied not earlier than 1 hour and not later than 48 hours from the application of the primer. The drying time is significantly affected by the environmental conditions (temperature and humidity). For application by airless spray, it is suggested to dilute the product with SOLVENT up to 10%. Never dilute the product with water. The same solvent can be used for cleaning the tools or the equipment from the fresh coating. Once the material is cured, it can only be removed mechanically. HARCOSIL 30-128 is not suitable for application as a directly exposed layer on swimming pools. HARCOSIL 30-128 is 100% UV stable and color stable and it can be applied on top of bituminous substrates to eliminate the chalking effect and to provide color stability. When HARCOSIL 30-128 is wet, it can become slippery. To avoid this effect, the coating can be sprinkled on top with an appropriate particle size of quartz while it is still fresh.

HarcoSil 30-128 17-HSS-30-128

Silicone Roof Coating

Professional Use Only

TECHNICAL PROPERTIES

Uncured material:	
Dynamic Viscosity (25 °C, 100 s ⁻¹) (EN ISO 3219)	2450 ± 100 mPa·s
Density (23 °C) (DIN EN ISO 2811-1)	1,24 ± 0,04 g/mL
Surface membrane formation time (23 °C, 50% R.H.)	2 ± 0,5 h
Temperature variations resistance	-30 to +80 °C
Cured material:	
Hardness SHORE A (DIN 53505)	50 ± 5
Adhesion to concrete (with primer)	>2 N/mm ²
Tensile strength (DIN 53504)	2,2 ± 0,2 N/mm ²
Elongation at break (DIN 53504)	350 ± 20%
Water vapour permeability (DIN EN 1931, 23 °C-0/75% R.H.)	12,7 ± g/m ²
Impermeability to water (DIN EN 1928, 1m water column, 24 h)	watertight
Accelerated weathering test, UV and water exposure, EOTA TR-010, radiant exposure 1000MJ/m ² , 4000 h)	Passed, no significant changes
Resistance against thermal aging, EOTA TR-011, 200 days at 80 °C	Passed, no significant changes
Fatigue resistance, EOTA TR-008, -10 °C, initial crack: 1mm, change in crack width: 1mm, number of cycles: 1000	No cracks
Classification according to ETAG 005:	
Minimum expected working life	W3 (25 years)
Climatic zone	S (severe climate)
User load	P4 (special)
Roof slopes	S1 to S4
Minimum surface temperature	TL4 (-30 °C)
Maximum surface temperature	TH3 (+80 °C)
Reaction to fire (EN 13501-1)	Class E

CONSUMPTION:

A minimum consumption of 1,0-1,3 L/m² (1,2 – 1,6 kg/m²) is recommended. In any case the consumption depends on the roughness of the surface or the specifications of the application. Curing time: 12 to 24 h, depending on environmental conditions.

PACKAGING / SHIPPING INFORMATION

Container size	Shipping Class
5 Gallon pail (17 liters)	Class 55

SHELF LIFE:

At least 12 months from day of manufacture, in its original unopened container. The material should be kept under cool and dry storage conditions (temperature < 25 °C).

To the best of our knowledge all technical data contained herein is true and accurate as of the date of issuance and subject to change without prior notice. User must contact Neptune Coatings to verify correctness before specifying or ordering. We guarantee our products to conform to the quality control standards established by Neptune Coatings. 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 NEPTUNE COATINGS EXPRESSED OR IMPLIED; STATUTORY, BY OPERATION OF LAW, OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

Neptune Coatings Corporation.

4260 Wagon Trail Avenue ■ Las Vegas ■ NV 89118 ■ USA

Tel. +1 (702) 410-5500 ■ Fax +1 (702) 410-5889 ■ info@neptunecoatings.com ■