



Harseal 1959 Silicone Flashing sealant

TYPICAL USES

- Repair material for metal and SPF roofs
- Seal fasteners, seams and details on low and semi-steep sloped roofs
- Pipe penetrations through roof decks in metal flashings
- Concrete, metal and most construction substrates
- Mold and mildew resistance

PRODUCT DESCRIPTION

Harseal 1959 is a high performance one-part, moisture curing, and room temperature vulcanizing (RTV) 100% silicone flashing sealant combined with reinforcing materials to provide strong sealability around roof fasteners, transitions and penetrations. Harseal 1959 has ultra-high strength and remains very durable. It will maintain its integrity on fasteners and penetrations with movement. Harseal 1959 exhibits excellent unprimed adhesion to concrete, metals and most other roofing substrates, provided they are clean, dry and free of dust and frost. Harseal 1959 is unaffected by sunlight (ultra-violet rays), ozone, temperature extremes, rain and snow. It has a long service life, and it was designed to perform between -60°C to 200°C (-76°F to 392°F).

PRODUCT CHARACTERISTICS AND PRACTICAL INFORMATION

Type	100% silicone, one-part RTV
Appearance	Smooth, thick paste
Temperature Range†	
Application Temperature Range	Ambient to 50°C (120°F)
Useable Temperature Range	-60°C a 200°C (-76°F a 392°F)
Drying Time*	
Tooling/Skin-Over Time	85 minutes
Cure Time	24 hours
Full Physical Characteristics	7 days

PHYSICAL PROPERTIES

(Typical properties - values not to be used as specifications)

Uncured	
Specific Gravity	1.28
Slump / Sag	Non-flow
Cure System	Neutral (Oxime), Moisture Cure
Cured at standard conditions* for 7 days	
Durometer Hardness (ASTM D2240, Shore A)	43 points
Tensile Strength (ASTM D412)	160 psi (11 kg/cm ²)
Elongation at Break (ASTM D412)	67%
Tear Resistance (ASTM D624, Die B)	27 ppi (4.7 kN/m)

†Please consult Neptune Coatings for suitability for application at lower temperatures

*At standard conditions 77°F (25°C) and 50% relative humidity.

COLORS

Harseal 1959 is available in White. For special projects, other colors are available using custom color matching at an additional charge. Please contact Neptune Coatings for assistance. Terms and conditions may apply.

SURFACE PREPARATION & CLEANLINESS

All penetrations must be clean, dry and free of contaminants before Harseal 1959 is applied. Dust and loose particles must be blown out of the joint with oil-free compressed air, moving only in one direction. An oily surface may reduce adhesion.

APPLICATION

Always test adhesion before applying to different substrates.

Harseal 1959 is ready-to-use and requires no mixing or additives. Apply Harseal 1959 to roofing substrate, fastener or penetration using appropriate caulking gun, brush, trowel, joint knife or plastic spatula to achieve a uniform membrane over the transition surfaces. Top coat with HarcoSil 29-97 and HarcoSil 19-97 Silicone Roof Coating when dry to touch.

Harseal 1959 can be applied in a single coat. Spread uncured Harseal 1959 to extend a minimum of 4" (100 mm) over the surface of the roof. Regularly monitor wet film thickness during application to ensure adequate uniform coverage. Coverage may vary depending on application technique and nature of substrate. Curing begins as soon as the sealant comes in contact with air. Application at temperatures below 4°C (40°F) will slow curing, while increased levels of humidity will aid curing. Tooling should be done before skinover takes place. Remove wet material from application/spreading tool with a rag before the material cures. Carefully use appropriate cleaning agent, such as citrus solvent or odorless mineral spirits, to remove cured material from tools. For best results, follow precautions on packaging.

SAFETY PRECAUTIONS

Harseal 1959 uses a neutral cure system, so no acetic acid or objectionable by products are evolved during cure. Adequate ventilation should be provided with extensive use of this sealant. On direct contact, uncured sealant may irritate eyes. Flush well with water and call a physician. Avoid prolonged contact with skin. See Safety Data Sheet available on this product.

This product is intended for use only by professional applicators in accordance with the advice given in this document, the Safety Data Sheet (SDS) and the container(s), and should not be used without reference to the SDS that Neptune Coatings has provided to its customers. **KEEP OUT OF REACH OF CHILDREN.**

All work involving the application and use of this product should be performed in compliance with all relevant national, Health, Safety & Environmental standards & regulations. If in doubt regarding the suitability of use of this product, consult Neptune Coatings for further advice.

STORAGE

Harseal 1959, when stored in original, unopened container in dry, shaded conditions, away from sources of heat or ignition, and stored below 32°C (90°F), has a shelf life of 12 months from date of manufacture.

PACKAGING

Harseal 1959 is available in 3.8 L (1 US gallon) cans, 9.5 L (2.5 US gallon) pails and 18.9 L (5 US gallon) pails.

WARRANTY

Neptune Coatings warrants that its products will meet its specifications. Neptune Coatings shall in no event be liable for incidental or consequential damages. Except as expressly stipulated, Neptune Coating's liability, expressed or implied, is limited to the stated selling price of any defective goods.

Data is subject to change without notice and it is therefore recommended that this information not be used for specification writing. For additional information on specific applications, contact the manufacturer.

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