



Technical Data Sheet

SIL MASTIC™

High Solids Silicone Roof & Concrete Sealant

PART 1: GENERAL INFORMATION

1.1 PRODUCT DESCRIPTION

100% Silicone Sealant is cost effective, multipurpose, neutral cure silicone sealant offering long term durability in a range of general sealing, general glazing, waterproofing and trade applications. Non-corrosive to concrete, brick and metals.

1.2 BASIC USES:

- Cracks
- Joints
- Flashings
- Metal Roof
- Penetrations

1.3 SUITABLE SUBSTRATES:

- Aged Asphalt Roofs, including Built-Up Roofing (BUR) and Modified Bitumen (MB)*
- Aged Single-Ply Roofs, including TPO, PVC, and Hypalon® Roofs*
- Spray Polyurethane Foam (SPF)
- Metal*
- Concrete*
- Previously Coated Silicone roofs as a retouch.
- PRO-SIL® Red Primer* Treated Roofs with: Acrylic Roof Coatings, Polyurethane Roof Systems, Concrete Roofs, Repaired Polymer Cement Roof Surfaces, Asphaltic Roofing Membranes, Galvanized Steel Surfaces, Other Metal Roofs and Cement Board Substrates.

• The use of Silicone Primers is required on certain roof substrates to assure adhesion and for warranty validation. Consult Conspro Corp. for specific primer recommendations, field testing protocols, product installation information, primer approvals and warranty requirements before product use on commercial projects.

*It is mandatory that concrete, polymer cement substrates, BB 2K Microtopping™ and BB 2K SL™ roof repairs are properly primed with PRO-SIL® Red Primer before applying the SIL HS™ Silicon Top Coat. Superb adhesion can be obtained if the SIL HS™ silicon is applied over an existing roof waterproofing in good condition and prepared with the PRO-SIL® Red Primer.

1.4 ADVANTAGES:

- Neutral cure product without any objectionable acetic fumes.
- Easy to use-one part, no mixing required.
- Non-slumping overhead joints.
- Can be applied in any kind of weather and season.
- Adheres to a range of common building material and finishes.
- Cures to a strong, flexible seal capable of withstanding movement in and around the joint.
- Resistant to weathering, UV, vibration, moisture, thermal cycling, airborne pollutants, cleaning detergents and many solvents.

1.5 LIMITATIONS:

- Do not apply SIL Mastic™ without proper application of PRO-SIL® Red Primer in difficult substrates or bonding failure could occur.
- Do not apply when air temperature exceeds 105°F (40°C).
- Do not apply to wet or damp roof surfaces or if RH is greater than 90%.
- Do not apply when it may rain or dew may condense on the roof surface before the coating can dry. All substrates must be completely dry without any surface moisture and must be 10°F above the dew point.
- Do not apply when air or surface temperature is below 55°F (12°C) or expected to fall before coating can cure.

PART 2: TECHNICAL DATA

2.1 PRODUCT CHARACTERISTICS:

MATERIAL PHYSICAL PROPERTIES				
BULL-BOND® SIL MASTIC				
PROPERTY	METHOD	UNIT	CLEAR	Black, White, Grey
Flow(Sag or Slump)	(ASTM D 2202)	mm	0	0
Tack-Free Time	(CTM 0098)	min	Max 20	Max 20
Extrusion Rate	(CTM 0364)	g/min	200-450	200-400
Specific Gravity	(ASTM D 1475)	g/ml	.95-1.0	≥1.40
Cured 7 days – 23°C, 50% R.H.				
Shore A Hardness	(ASTM D2240)	point	20-30	30-40
Tensile Strength	(ASTM D412)	Mpa	≥0.8	≥1.0
Elongation at Break	Elongation at Break	%	≥400	≥400

2.2 SHELF LIFE:

- Usable Life And Storage:
 When stored at or below 86°F (30°C) in the original unopened containers. SIL Mastic – 100% Silicone Sealant has a usable life of 12 months from the date of manufacture

2.5 PACKAGING SIZE

- 600ml Sausage

PART 3: INSTRUCTIONS

3.1 PREPARATION

Clean all joint surfaces. Surfaces must be clean, dry and sound. Remove all loose debris and/or old sealant, if any. General recommendations are:
 For non- porous surfaces: Solvent wipe the joint surfaces using a non-oily solvent such as methyl ethyl ketone, white sprits or mineral turpentine on a clean white lint-free cloth to remove any oils and contaminants. Immediately wipe with a second dry cloth to remove any traces of solvent and contamination For Porous surfaces such as concrete: Wire brush or abrade the surfaces to remove loose debris, old paint and other contaminants. Remove dust with an oil-free compressed air blast and/or high pressure water blast. Allow to dry before sealing. If necessary solvent wash and allow to dry.

SEALING CRACKS, JOINTS AND SEAMS:

3.1 Concrete Roof:

I. Crack repair with a thickness of 20 mils or more:

- a. All cracks must be routed at 1/4" wide by 1/4" deep with an angle grinder, using a diamond or carbide cutting blade.
- b. Eliminate all dust on opened cracks using a vacuum cleaner or other dry cleaning method.
- c. Apply a Sil Mastic™ inside the opened crack, filling it entirely; immediately use a spatula to press the excess sealant material towards the crack, leaving a band of 1"-2" wide over the crack.
- d. Allow the Sil Mastic™ to cure for 24 hours or until 100% cured.

II. Repair visible hairline cracks thinner than 20 mils:

Option a. Follow above procedure, see Crack Repair I. Option b. Using a spatula, apply a 2" wide band of the Sil Mastic with a minimum thickness of 30 mils.

3.2 Metal Roof:

1. Apply joint/seam sealant along all horizontal and vertical metal panel seams and interfaces filling them entirely. Immediately after, use a spatula to smooth out the sealant material and press down any excess material towards the seam/joint leaving a band 1"-2" wide. 2. Allow the sealant to cure for 24 hours or until 100% cured.

*All cracks, joints, seams and interfaces present on the roof must be completely repaired before applying the coating.

3.3 Application Method

Mask adjacent surfaces with masking tape. Masking will ensure a clean, neat appearance and reduce clean up by protecting surrounding areas from excess sealant. Cut tip off the cartridge. Cut nozzle at 45° angle to the desired shape and size. Screw nozzle onto cartridge. Place cartridge in caulking gun. Air-operated or hand-operated caulking guns can be used. Apply sealant into the base of the joint so that it completely fills the joint, wetting both sides. Do not simply lay a bead on the surface as the sealant will not penetrate the joint under its own weight. Tool the surface of the joint immediately after sealant application to provide a smooth even finish and to ensure the sealant wets the sides of the joint. Tooling should be completed in one continuous stroke before the sealant forms a skin (i.e.; within the working time). A tool with a convex profile is recommended to keep the sealant within the joint. When sealing horizontal joints tool the sealant so that any liquids (e.g. rain water, cleaning solutions) do not collect and pool on top of the sealant. Do not use soap or water as tooling aids. Remove masking tape immediately after tooling and before the sealant skins. After a skin has formed, do not disturb the joint for 48 hours. Avoid contact with various cleaning agents or solvents (e.g.bleach) whilst sealant is curing. Uncured sealant can best be cleaned from tools using commercial solvents such as xylene, toluene or methylethyl ketone. Mineral turpentine will suffice if available. Observe proper precautions when using flammable solvents. On porous surfaces allow sealant to cure before removing by abrasion. Cured sealant is not soluble and must be trimmed with a blade, avoid undercutting the seal. Sealant releases ethyl methyl ketoxime and ethanol during cure. Once cured this odor disappears. Fully cured sealant is not hazardous.

3.4 CLEANUP

Clean spills/equipment promptly; see Traffic Paint SDS/TDS.

PART 4: PRECAUTIONS

Keep out of reach of children; avoid inhalation; wear eye protection; read SDS before use. Use only as directed with Bull-Bond® Sil Mastic™.

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Check our website for the latest version of the Technical Data Sheet



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