

TECHNICAL DATA SHEET

DOLPHIN 510 MULTIPURPOSE SILICONE SEALANT

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PRODUCT DESCRIPTION

Dolphin 510 Multipurpose Silicone Sealant is a neutral oxime grade, high – performance, single component silicone sealant. It is permanently elastic and can be efficiently used in sanitary and general construction applications. It has an anti – fungal property, hence, is thoroughly suitable for kitchen and both applications. It is an industrial – grade, silicone sealant designed to seal lap joints. This silicone has non – corrosive property and 50% joint movement capability.

TECHNICAL PROPERTIES



Properties	Test Method	Specifications
Chemical Base		1-C Silicone
Cure Mechanism		Moisture
Cure Type		Neutral
As Supplied @ 25°C, 50% RH		
Color		Clear, White, Black
Consistency		Homogeneous paste
Density	ASTM D 1475	1.00 ± 0.02 g/ml
Flow Properties	ASTM C 639	0 (non-sag) mm
Skin Over Time	ASTM C 679	Approx. 7 minutes
Tack Free Time	ASTM C 679	Approx. 12 minutes
Depth Cure, 24 hrs.	Lab Test	~ 2.5 mm
As Cured – 7 Days @ 25°C, 50% RH		
Hardness (Shore A)	ASTM D 2240	30 – 35 Points
Tensile Strength	ASTM D 412	< 1.10 N/mm ²
Elongation	ASTM D 412	≤ 700 %
Young's Modulus	ASTM D 412	< 0.30 MPa
Service Temp.		-20 to +200 °C
Application Temp.		5 – 45 °C

(Information on this data sheet is subject to change without prior notice and should not be used for writing specifications)

(Curing time (Skin Over Time & Tack Free Time) may vary depending on climatic condition during application)

TYPICAL USES

- Metal Roofing systems
- Flashing downpipes
- Skylights & Extraction units
- Pipe or Sprinkler system penetrations
- Air conditioning
- Sheet-metal
- General-purpose adhering sealing, Building material, Steel, Aluminium, Concrete, Brick, and Masonry
- Block or Brickwork

KEY FEATURES

- Non-Corrosive
- Non-stain
- Excellent Adhesion
- General Purpose



WORLD-CLASS
CHEMICALS

Color	Dolphin 510 Multipurpose Silicone Sealant is available in Clear, White, Black, and Grey. RAL* colors are available upon request. *Special color orders may require lead time and minimum order quantities.
Packaging	Dolphin 510 Multipurpose Silicone Sealant is available in standard caulking cartridges (280ml), packed sausages (600ml) and 200 Liter drum.
Surface preparation	The substrate areas that will be in contact with sealant must be clean, dry, and free of all loose materials, dust, dirt, rust, oil, and other contaminants. Non - porous substrates should be cleaned with a solvent and a clean, lint - free, cotton cloth. Wipe dry immediately with another such cloth before the solvent evaporates from the surface.
Tooling and finishing	Immediately tool sealant after application and before skin formation. Tooling of sealant should be done in one continuous stroke. Remove masking tape immediately after tooling is completed.
Cleanup and removal	Uncured sealant may be removed from tools, equipment, and non-porous surfaces with solvents. For porous substrates, allow the sealant to cure before removal by peeling or other mechanical means. Cured sealant can only be removed mechanically.
Limitation	Not paintable.
Storage and shelf life	When stored in original unopened container at or below 77°F (25°C) in dry warehouse conditions, Dolphin 510 Multipurpose Silicone Sealant has a shelf life of 12 months from manufacturing date. Containers should always be kept sealed when not in use.
Handling precautions	Use in well-ventilated area. Direct contact of uncured sealant may irritate eyes and skin. Over exposure to vapor may irritate eyes, nose, and throat. Do not handle contact lenses with sealant on hands. In case of eye contact, flush eyes with water for 15 minutes. Obtain medical attention. In case of skin contact, remove from skin and flush with water.

KEEP OUT OF REACH OF CHILDREN • KEEP CONTAINER TIGHTLY CLOSED • FOR INDUSTRIAL & PROFESSIONAL USE

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