

TECHNICAL DATA SHEET

DOLPHIN 540 Neutral Silicone Sealant

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PRODUCT DESCRIPTION

Dolphin 540 Neutral construction grade weather sealant is an one component neutral cure silicone with excellent adhesion to different substrates. It is non corrosive to metal and has low odour. It cures to atmospheric moisture to form a permanently flexible rubber seal. It is UV, ozone, moisture and temperature resistant, with high movement capability. It is well suited for Door & Window and most general construction applications.

TECHNICAL PROPERTIS



Properties	Test Method	Unit	Specifications
Chemical Base			1-C Silicone
Cure Mechanism			Moisture
Cure Type			Neutral
As Supplied @ 25°C, 50% RH			
Color			White, Grey, Black
Consistency			Homogeneous paste
Density	ASTM D 1475		1.36 ± 0.02
Flow Properties	ASTM C 639	mm	0 (Non-sag)
Skin Over Time	ASTM C 679	minutes	Approx. 4
Tack Free Time	ASTM C 679	minutes	Approx. 10
Depth Cure, 24 hrs	Lab Test	mm	~ 2.5
As Cured - 7 Days @ 25°C, 50% RH			
Hardness (Shore A)	ASTM D 2240	Points	40 – 45
Tensile Strength	ASTM D 412	N/mm ²	≤ 1.10
Elongation	ASTM D 412	%	≤ 450
Modulus 100%	ASTM D 412	N/mm ²	< 0.30
Service Temp.		°C	-20 to +200
Application Temp.		°C	5 – 45

Note:

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

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

TYPICAL USES

- All weather sealing applications like general – purpose glazing
- Due to low modulus property it can dynamically seal moving joints such as expansion & control joint, ACP, anodized aluminium , cement, wood, glass ceramics, painted surface and many plastics.
- Concrete panel joints, Tilt- Up panel joints, curtain wall joints
- Suitable for perimeter caulking (Window, door panels and frames etc.)
- Recommended for exterior applications

KEY FEATURES

- Non-Corrosive
- Non-stain
- Excellent Adhesion
- Dynamic Sealing



WORLD CLASS
PRODUCTS

COLOR	DOLPHIN 540 Neutralseal Silicone Sealant is available in White, Grey and Black colors. *Special color orders may require lead time and minimum order quantities.
PACKAGING	DOLPHIN 540 Neutral Silicone Sealant is available in standard caulking cartridges (280 ml), packed sausages (600 ml) 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.
JOINT DIMENSIONS	Joint dimensions: Min. width for joints: 5 mm, Max. width for joints: 30 mm, Min. depth for joints: 5 mm. Recommendation Sealing jobs: Joint width = 2 X Joint depth
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 540 Neutral Silicone Sealant has a shelf life of 12 months from the 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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