

TECHNICAL DATA SHEET

DOLPHIN 530 WEATHER SEALANT

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PRODUCT DESCRIPTION

Dolphin 530 weather sealant is a premium performance, neutral oxime architectural grade weather resistance silicone with greater durability. Specially designed product that forms a primer less adhesion to sealing joints in building facades, ACP, and curtain walls. It has non – corrosive property 50% joint movement capability and low tensile strength. It can form powerful bonding and low tensile strength. It can form powerful bonding to a variety of construction materials. Low string upon gunning, ease of application and ready to use. Can easily extrude in any weather and form a flexible rubber seal.

TECHNICAL PROPERTIES



Properties	Test Method	Specifications
Chemical Base		1-C Silicone
Cure Mechanism		Moisture
Cure Type		Neutral
Joint Movement Capability	ASTM C 719	±50 %
As Supplied @ 25°C, 50% RH		
Color		Black, Grey, White
Consistency		Homogeneous paste
Density	ASTM D 1475	1.27 ± 0.02 g/ml
Flow Properties	ASTM C 639	0 (non-sag) mm
Skin Over Time	ASTM C 679	Approx. 5 minutes
Tack Free Time	ASTM C 679	Approx. 10 minutes
Depth Cure, 24 hrs.	Lab Test	~ 2.4 mm
As Cured – 7 Days @ 25°C, 50% RH		
Hardness (Shore A)	ASTM D 2240	30 – 35 Points
Tensile Strength	ASTM D 412	≤ 1.80 N/mm ²
Elongation	ASTM D 412	≤ 750 %
Young's Modulus	ASTM D 412	≤ 0.35 MPa
Service Temp.		-40 to +250 °C
Application Temp.		5 to 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

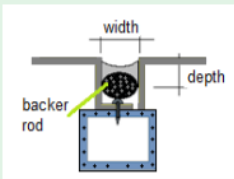
- Suitable for general glazing and weather sealing. Interior and Exterior Applications
- Sealing dynamically moving joints such as expansion and control joints
- Concrete panel joints
- Perimeter joint sealing (windows, doors panels, and frames, etc.)
- Façade & curtain wall application
- Good bonding between metal surface and rubbers like EPDM

KEY FEATURES

- Non-Corrosive
- Non-Stain
- UV & Weather-Resistance
- Excellent Adhesion



WORLD-CLASS
CHEMICALS

Color	Dolphin 530 Weather Sealant is available in Black, Grey, and White colors. RAL* colors are available upon request. *Special color orders may require lead time and minimum order quantities.
Packaging	Dolphin 530 Weather 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. Porous surfaces may need to be grinded, free of dust and cleaned
Joint design	<p>For General Use</p> <p>joints up to 12 mm wide, width to depth ratio = 1:1</p> $\frac{\text{width}}{\text{depth}} = \frac{1}{1} \text{ or } w = d$ <p>joints over 12 mm wide, width to depth ratio = 2:1</p> $\frac{\text{width}}{\text{depth}} = \frac{1}{0.5} \text{ or } w = 2d$  <p>Install backing material, spacer, or joint filler to ensure correct depth to width ratio is achieved according to design. Apply masking tapes to areas adjacent to joints to ensure neat sealant lines.</p>
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. Substrate compatibility test is always recommended.
Storage and shelf life	When stored in original unopened container at or below 77°F (25°C) in dry warehouse conditions, Dolphin 530 Weather Sealant has a shelf life of 12 months from manufacturing date. Containers should always be kept sealed when not in use. Application temperature is 5 to 45 °C
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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