

TECHNICAL DATA SHEET

DOLPHIN WS520 All Weather Sealant

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PRODUCT DESCRIPTION

Dolphin WS520 – All Weather Sealant is a high-performance, neutral cure weather resistance silicone sealant. It has non-corrosive property, 50% Joint movement capability and excellent Tensile strength. It provides strong bonds to a variety of construction materials. Low string upon gunning, ease of application and ready to use. It has an excellent adhesion to glass, aluminium, glazed surfaces and metals, plastics, tiles, wood, concrete and other building materials.

TECHNICAL PROPERTIS



Properties	Test Method	Unit	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		1.40 ± 0.02
Flow Properties	ASTM C 639	mm	0 (Non-sag)
Skin Over Time	ASTM C 679	minutes	Approx. 6
Tack Free Time	ASTM C 679	minutes	Approx. 10
Depth Cure, 24 hrs	Lab Test	mm	~ 2.7
As Cured – 7 Days @ 25°C, 50% RH			
Hardness (Shore A)	ASTM D 2240	Points	43 – 48
Tensile Strength	ASTM D 412	N/mm ²	≤ 1.40
Elongation	ASTM D 412	%	≤ 600
Young's Modulus	ASTM D 412	MPa	≤ 0.40
Service Temp.		°C	-40 to +200
Application Temp.		°C	5 to 45

Note:

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

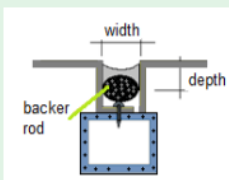
* Information on this data sheet is subject to change without prior notice and should not be used for writing specifications

TYPICAL USES

- Interior and Exterior applications
- Expansion, Contraction, Perimeter and other joint sealing.
- Coated Glass, Galvanized steel, Masonry, and other Porous and non-porous substrates.
- Façade & curtain wall application

KEY FEATURES

- Negligible Shrinkage
- UV & Weather-Resistance
- Excellent Adhesion
- Non-corrosive
- Non-stain

COLOR	DOLPHIN WS520 All 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 WS520 All 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 WS520 All Weather 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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