



WORLD-CLASS CHEMICALS

TECHNICAL DATA SHEET

DOLPHIN 125 UNIVERSAL SILICONE SEALANT

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PRODUCT DESCRIPTION

Dolphin 125 Universal Silicone Sealant is a versatile multipurpose construction sealant that is single component acetic cure silicone which cures to atmospheric moisture to form a high strength, durable and elastic rubber seal. It has been formulated to offer outstanding primer less adhesion to most common building materials including vinyl, galvanized aluminum, galvanized steel, concrete, painted wood, ceramic and glass. It can be applied and tooled under many weather conditions. Dolphin 125 Universal Silicone Sealant has Mold and Fungal resistance properties.

TECHNICAL PROPERTIES



Properties	Test Method	Specifications
Chemical Base		1-C Silicone
Cure Mechanism		Moisture
Cure Type		Acetoxy
As Supplied @ 25°C, 50% RH		
Color		Clear, White, Black
Consistency		Homogeneous paste
Density	ASTM D 1475	0.97 ± 0.02 g/ml
Flow Properties	ASTM C 639	0 (non-sag) mm
Skin Over Time	ASTM C 679	Approx. 5-7 minutes
Tack Free Time	ASTM C 679	Approx. 8-12 minutes
Depth Cure, 24 hrs.	Lab Test	~ 2.2 mm
As Cured – 7 Days @ 25°C, 50% RH		
Hardness (Shore A)	ASTM D 2240	16-20 Points
Tensile Strength	ASTM D 412	< 1.20 N/mm ²
Elongation	ASTM D 412	≤ 850 %
Young's Modulus	ASTM D 412	< 0.22 MPa
Service Temp.		-20 to +220 °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

- Interior Applications Only
- Sealing construction joints in concrete structures
- Sealing masonry joints, balcony, window, and door perimeter joints
- Galvanized metal joints
- Galvanized aluminium angle joints
- Pinhole and shower screen repair

KEY FEATURES

- High-Flexibility
- Multi-Purpose

COLORS	Dolphin 125 universal 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 125 universal silicone sealant is available in collapsible tube (90ml), standard caulking cartridges (280 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
JOINT DESIGN	The movement capability of the sealant must be considered to decide the joint design. To reduce the deformations of the joints, depth must be less than width. Depths should be preferably half of the width and it's adjusted using a backup material.
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.
LIMITATIONS	Not paintable. May not be suitable to join sensitive natural stones such as marble, granite, or quartz, as this may cause staining. Not to be used in contact with sensitive metals such as lead, copper, brass, zinc, carbon steel, galvanized iron or magnesium as corrosion may occur during acetic acid release/sealant cure. 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 125 universal silicone sealant has a shelf life of 15 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 irritates eyes and may irritate 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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