

TECHNICAL DATA SHEET

MACSEAL WEATHER SEALANT 540

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PRODUCT DESCRIPTION

MACSEAL WEATHER SEALANT is construction grade weather sealant with one component neutral cure silicone exhibiting excellent adhesion to different substrates. It is noncorrosive to metal and has low odor. 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 PROPERTIES



Properties	Test Method	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 0 (non-
Flow Properties	ASTM C 639	sag) Approx.4
Skin Over Time	ASTM C 679	Approx.10 ~2.5
Tack Free Time	ASTM C 679	
Depth Cure, 24 hrs	Lab Test	
As Cured – 7 Days @ 25°C, 50% RH		
Hardness (Shore A)	ASTM D 2240	40 –45
Tensile Strength	ASTM D 412	≤1.10
Elongation	ASTM D 412	<450
Modulus 100% elongation	ASTM D 412	< 0.30
Service Temp.		-20to+200
Application Temp.		5 –45

(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

- Allweather 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.)

KEY FEATURES

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

• Recommended for exterior applications	
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Color	MACSEAL WEATHER SEALANT is available in White, Grey, and Black colors. RAL* colors are available upon request. *Special color orders may require lead time and minimum order quantities.
Packaging	MACSEAL WEATHER 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, MACSEAL WEATHER 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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