

# TECHNICAL DATA SHEET

## MAC 222 SILICONE SEALANT

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## PRODUCT DESCRIPTION

MAC 222 SILICONE SEALANT is an anti-bacterial; single component Acetic cure sealant, which is cured by atmospheric moisture to form a high strength waterproof seal. It is multi-purpose silicone sealant which is flexible and has a powerful anti-fungicide property to prevent mold / bacteria growth.

## TECHNICAL PROPERTIES



Properties	Test Method	Specifications
Chemical Base		1-C Silicone
Cure Mechanism		Moisture
Cure Type		Acetoxo
As Supplied @ 25°C, 50% RH		
Color		Clear, White, Black
Consistency		Homogeneous paste
Density	ASTM D 1475	0.93 ± 0.02 g/ml
Flow Properties	ASTM C 639	0 (non-sag) mm
Skin Over Time	ASTM C 679	Approx. 4-6 minutes
Tack Free Time	ASTM C 679	Approx. 7-10 minutes
Depth Cure, 24 hrs.	Lab Test	~ 2.0 mm
As Cured – 7 Days @ 25°C, 50% RH		
Hardness (Shore A)	ASTM D 2240	20-24 Points
Tensile Strength	ASTM D 412	< 1.40 N/mm <sup>2</sup>
Elongation	ASTM D 412	≤ 750 %
Young's Modulus	ASTM D 412	< 0.25 MPa
Service Temp.		-20 to +180 °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 around Bathtubs, Showers, Basins, and other sanitary wares
- As an adhesive for fixing U-PVC Trims, and Galvanized Panels
- Sealing around Galvanized Metals, Timber and U-PVC Window and Door Frames
- For Galvanized Aluminium gutter sealing
- General Draught proofing

## KEY FEATURES

- High flexibility
- Anti-fungal & anti-bacterial

<b>COLORS</b>	<p><b>MAC 222 SILICONE SEALANT</b> is available in Clear, White, Black, and Grey. RAL* colors are available upon request.</p> <p>*Special color orders may require lead time and minimum order quantities.</p>
<b>PACKAGING</b>	<p><b>MAC 222 SILICONE SEALANT</b> is available in standard caulking cartridges (280 ml) and 200 Liter drum</p>
<b>SURFACE PREPARATION</b>	<p>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</p>
<b>JOINT DIMENSIONS</b>	<p><b>Joint dimensions:</b> Min. width for joints: 5 mm, Max. width for joints: 30 mm, Min. depth for joints: 5 mm.</p> <p><b>Recommendation sealing jobs:</b> Joint width = 2 × Joint depth.</p>
<b>TOOLING AND FINISHING</b>	<p>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.</p>
<b>CLEANUP AND REMOVAL</b>	<p>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.</p>
<b>LIMITATIONS</b>	<p>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.</p>
<b>STORAGE AND SHELF LIFE</b>	<p>When stored in original unopened container at or below 77°F (25°C) in dry warehouse conditions, <b>MAC 222 SILICONE SEALANT</b> has a shelf life of 12 months from manufacturing date. Containers should always be kept sealed when not in use.</p>
<b>HANDLING PRECAUTIONS</b>	<p>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.</p>

KEEP OUT OF REACH OF CHILDREN • KEEP CONTAINER TIGHTLY CLOSED • FOR INDUSTRIAL & PROFESSIONAL USE

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