

TECHNICAL DATA SHEET

MMA GP Premium Silicone Sealant

PRODUCT DESCRIPTION

MMA GP Premium Silicone Sealant represents a cutting-edge addition to our lineup of acetic sealants tailored for professional applications. As a single-component silicone, it cures in response to atmospheric moisture, ensuring minimal shrinkage for optimal results. This versatile sealant finds utility across diverse construction and glazing tasks. Its user-friendly application process is complemented by outstanding adhesion properties to a spectrum of nonporous surfaces, including glass, glazed ceramic tiles, and aluminum. Additionally, it possesses potential anti-fungicide properties, effectively inhibiting mold formation.

TECHNICAL PROPERTIS



Properties	Test Method	Unit	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		0.98 ± 0.02
Flow Properties	ASTM C 639	mm	0 (Non-sag)
Skin Over Time	ASTM C 679	minutes	Approx. 5
Tack Free Time	ASTM C 679	minutes	Approx. 20-30
Depth Cure, 24 hrs	Lab Test	mm	2-3
As Cured – 7 Days @ 25°C, 50% RH			
Hardness (Shore A)	ASTM D 2240	Points	15 – 20
Tensile Strength	ASTM D 412	N/mm ²	< 1.20
Elongation	ASTM D 412	%	≤ 600
Tensile @100% elongation, N/mm ² , approx.	ASTM D 412	MPa	0.20 – 0.30
Service Temp.		°C	-20 to +220
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	KEY FEATURES
<ul style="list-style-type: none"> • Ideal for professional sealing and bonding applications. • Ideal for use in a variety of settings due to its superior adhesion properties. It adheres exceptionally well to a wide range of materials including: Glass, Glazed surfaces, Galvanized metals, Plastics, Tiles, Wood, Concrete and Other common building materials. • Suitable for both indoor and outdoor use. • Suitable for use in kitchens, bathrooms, and other high-humidity areas. • Panel stiffener applications 	<ul style="list-style-type: none"> • High-quality, single-component acetic cure silicone sealant. • Fast Curing • Anti-fungal & anti-bacterial • Excellent sealing and bonding capabilities. • Easy to apply and offers excellent adhesion to nonporous substrates like glass, glazed ceramic tiles, and aluminum.

COLORS	MMA GP Premium 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	MMA GP Premium SILICONE SEALANT is available in collapsible tube (90ml), standard caulking cartridges (280 ml) and 200 Liter drum.
SURFACE PREPARATION	Surface preparation is critical for effective sealant adhesion. Prior to application, ensure substrate areas are clean, dry, and free of contaminants such as dust, dirt, and oil. Non-porous surfaces should be cleaned using a solvent and wiped dry with a lint-free cloth before the solvent evaporates. This meticulous process promotes optimal sealant performance.
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	When designing joints for sealant application, it's crucial to account for the sealant's movement capability. To minimize joint deformations, the depth should be less than the width. Ideally, depths should be around half the width, adjusted as needed using backup materials. This approach helps maintain joint integrity and ensures effective sealing over time.
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, MMA GP Premium SILICONE 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 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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