

"MS-111"

MS POLYMER ADHESIVE / SEALANT



Paintable | No Bubble Formation | Can be Applied on Damp Surfaces



- Hybrid Silyl Modified Polyether Technology
- High Mechanical Bonding Strength
- Non-Staining & Crack Resistant
- Free of Isocyanate, Solvent & Acid
- Excellent UV Radiation & Weather Resistant
- Primerless Adhesion on Many Substrates
- Odorless & Fast Curing
- Suitable for Indoor & Outdoor Uses

NON-BLEEDING SEALANT

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MS-111 is based upon Hybrid Silyl Modified Polyether Technology. It is suitable in wide range of industrial applications and it has excellent primerless adhesion to various types of substrates of dissimilar porosity, and surfacetextures. It also can be over painted with most of the types of paints. **MS-111** is a technology that combines the unique features of silicone and polyurethane sealants. It is a moisture cure system adhesive sealant and "none" bubbling when apply in high humidity or to moist substrates. It is not suitable for structural glazing.

Uses:

Elastic bonding and sealing for:

- . Bus
- . Train
- . Trailers
- . Caravan
- . Yacht
- . Construction
- . Flooring
- . Metal Frames
- . Natural Stone
- . Aluminiums
- . Concrete
- . Fibre Glass

Joint Design:

The specified sealant bead size should be calculated to comply with the compression and extension capabilities of the sealant in relation to the anticipated joint width due to expansion and contraction.

Generally calculation of the width of **MS-111** sealant bead should be computed on the basis of a maximum+ 20 % of the original joint width. Compression and extension capability minimum bead size should not be less than 3mm to accommodate movement. Design joint depth of which ratio width becomes 0.5 to 1.

Suitable joint depth vs width:
6mm x 6mm, 8mm x 12mm, 10mm x 20mm

* Joint size minimum 3mm x 3mm

Application:

- Substrates must be clean, dry and free from grease. Remove all dirt, oil, grease, detergents and loose material.
- Cut tip off Cartridge. Cut nozzle to desired size at 45°angle. Screw nozzle onto cartridge. Insert cartridge into caulking gun.
- Push sealant ahead for uniform bead
- Clean off excess sealant with m.e.k. or toluene before dry.

Curing Time:

MS-111 will skin forming in approximately 15 minutes and it will cure to a depth of 11.5 mm in 7 days. Longer curing time may be necessary in dry and low humidity area.

Specification:

PROPERTIES	VALUE
Curing System	Neutral
Appearance	Non-Sagging Paste
Smell	Odorless
Slump / Flow (Vertical & Horizontal @ 5°C and 50°C)	0 (No Failure)
Tensile Strength at Maintained Extension	No Failure
Specific Gravity	1.43+/- 0.05
Hardness (Shore A)	32 Approx.
Staining and Colour Change	No Staining and No Colour Change
Elongation at Break	1000% Approx.
Tensile at Break	1.4 Mpa
Secant Modulus @ 23°C at 100% Elongation	0.4 Mpa
Application Temp.	5°C to 40°C
Service Temp.	-40°C to 100°C
Lap Shear Strength (AL. to AL.)	1.06 Mpa
Shelf life	12 months

Storage:

Material should be stored in a dry and cool place between +5°C to +30°C.

Caution:

Read and understand material safety data sheet of this product before handling or using.

We recommend preliminary compatibility tests prior to application to achieve desirable results.

This information is provided in good faith and is believed accurate based on a review of current composition and information supplied by vendors.

Colour Available: White

Content: 290ml (410 gms) cartridge

Packaging Details: 24 cartridges