



MS-333
MS POLYMER ADHESIVE / SEALANT



Description:-

BUILD MARQUE MS-333 is based upon hybrid silyl modified polyether technology. It is an odorless, one part adhesive sealant suitable for all kind of industrial applications even in adverse conditions. It has high bond strength and primerless adhesion on most type of substrates or moist surfaces. It can be painted with most kind of paints and has superior weatherability in all climates. It has a wide temperature range and will not form bubble within sealant even in a high humidity condition. It is an ideal product for all in one indoor and outdoor bonding and sealing purposes.

Features:-

- Good mechanical strength
- No visible stain even on porous substrate
- Permanently flexible & non-shrinkage
- No bubble formation within sealant
- Can be applied on damp surface

- Non-bleeding and crack resistant
- Excellent UV radiation and weather resistance
- Free of isocyanate, solvent, acid and silicone oil
- Primerless adhesion on most substrates
- Fungus is not easily grow on sealant

Uses:-

MS-333 is specially developed as a universal sealant for sealing building connection and expansion joint on most building materials such as concrete, brickwork, aluminum, stainless / mild or galvanized steel, door or metal frames, and ceramics. It's also suitable for sealing and bonding in automotive industry, cold storage & clean room.

Due to a large variety of different coatings and substrates, we recommend preliminary compatibility tests prior to application to achieve desirable results.

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 die to expansion and contraction. MS-333 has a movement accommodation factor (MAF) of 25%. The theoretical minimum joint width may be calculated

$$W = \frac{M}{MAF/100} + M$$

M = expected maximum working movement of joint

MAF = movement accommodation factor of sealant

A minimum of 6mm substrate sealant bond is necessary to ensure adequate adhesion and accommodate movement. Joint depth should not less than 6mm and not greater than 12mm. The optimal ratio of sealant width to depth is 2:1. Backer material should be installed to prevent 3 side adhesion and to control sealant depth.

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Suitable joint width* vs depth

 6mm x 6mm
 20mm x 10mm

 12mm x 6mm
 25mm x 12mm

 16mm x 8mm
 30mm x 12mm

*Bigger joint width may encounter at the job site condition but have to take precautions step as sealant may sag on vertical application.

Application:

- Substrates must be clean, dry and free from grease. Remove all dirt, oil, grease, detergents and loose material.
- The joint edges can be masked with tape to prevent contamination of adjacent substrates. The tape should be removed carefully after tooling.
- Cut tip off cartridge. Cut nozzle to desired size at 45° angle. Screw nozzle onto cartridge. Place cartridge into caulking gun.
- Extrude the sealant firmly into joint to ensure complete contact with joint faces.
- Tool as required within the tooling time to achieve smooth surface.

Curing Time:-

MS-333 will skin forming in approximately 15 minutes and it will cure to a depth of 10 mm in 7 days. Longer curing time may be necessary in dry and low humidity area.

Paintability:-

MS-333 is paintable with water based paints, however due to large number of paints and varnishes available we strongly suggest a compatibility test before application. Paints based on alkyd resins may have extended drying time.

Note: MS-333 has larger movement capability than a normal paint film. Cracking of paint film may occur with movement in joint.



Chemical resistance:-

Good resistance to water, diluted inorganic acids and alkalis.

Poor resistance to concentrated acids and alkaline solutions, organic solvents, and halogenated hydrocarbons.

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Clean up

Excess sealant can be removed with mineral spirit and cleaning solvent before cured. After curing, MS-333 may only be removed mechanically.

Limitations:

MS-333 is not suitable for the following applications:

- PE, PP, PTFE, plastics containing softeners, and bituminous substrates.
- Structural glazing.
- Totally confined spaces where there is no atmospheric humidity, which is needed for proper curing.
- Under water applications.
- Heavy trafficable surface / joints.
- Exposure to aggressive solvents or chemicals.
- Food contact.

Packaging:

290 ml cartridges / 24 per carton

Color:

White, grey & other colors upon request.

Shelf life:

12 months for cartridge packaging (unopened) in a cool and dry storage place at temperatures between $+5^{\circ}$ c and $+30^{\circ}$ c.

Quantity Estimation

Number of 290ml cartridge

= JOINT WIDTH (MM) X JOINT DEPTH (MM) X JOINT LENGTH (M) X 1.15

* With 15% wastage estimation

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Specification:

Properties	Value
Curing System	Neutral
Appearance	Non-sagging
	paste
Smell	Odourless
Specific Gravity	1.58 +/- 0.02
	(white & grey)
	1.56+/- 0.02
	(black)
Hardness (shore	30
A)	30
Elongation at	800% approx.
Break	000% applox.
Tensile at Break	0.75 mPa
Secant Modulus	
@ 23°c at 100%	0.38 mPa
Elongation	
Application	5°c to 40°c
Temp.	3 C 10 40 C
Service Temp.	-40°c to 100°c
Lap Shear	
Strength (AL. To	0.80 mPa
AL.)	

Caution:

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

This information is provided in good faith and is believed accurate based on a review of current composition and information supplied by vendors. No warranty is expressed or implied. Liability is expressly disclaimed.

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