TECHNICAL DATA SHEET

MS-601 HIGH PERFORMANCE ADVANCED POLYMER ADHESIVE/ SEALANT

PRODUCT DESCRIPTION

Description: MS-601 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 surface textures. It also can be over painted with most of the types of paints. MS-601 is a technology that combines the unique features of Silicone and Polyurethane Sealants. It is a moisture cure system adhesive sealant and "NON" bubbling when apply in high humidity or to moist substrates. It is not suitable for structural glazing. MS-601 meets the requirements of ISO 11600, Type F(construction sealant), Class 20HM

Features

- High mechanical bonding strength
- Solvent, Isocyanate and PVC Free
- Neutral, odourless and fast curing
- Can be applied on wet surfaces
- Internal and External
- Environment friendly
- Excellent UV and weather resistance
- Less yellowing compared to PU & non-staining

Applications: Elastic Bonding and Sealing for :-

- **Bus**
- **Train**
- **Trailers**
- **Caravan**
- **Yacht**
- **Construction**
- **Flooring**
- **Metal frames**
- **Natural stone**
- **Aluminium**
- **Concrete**
- **Fibre glass**

WE RECOMMEND PRELIMINARY COMPATIBILTY 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.

Generally calculation of the width of MS-601 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

Directions:

- 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-601 will skin forming / tack free in approximately 35 minutes and it will cure to a depth of 11.5 mm in 7 days.

Specification:

Properties	Method	Value
Curing System	-	Neutral
Appearance	Visual	Non-Sagging Paste
Smell	Visual	Odourless
Slump / Flow (Vertical and Horizontal @ 5°C and 50°C	Based on ISO 7390	0 (No Failure)
Tensile strength at maintained extension	Based on ISO 8340	No Failure
Specific Gravity	Based on ASTM D 1475	1.39 +/- 0.05
Hardness (Shore A)	Based on ASTM D2240	29
Staining and colour change	Based on ASTM C510	No staining and no colour change
Viscosity ratio (2rpm/10 rpm using spindle 7	Brookfield Viscometer	4.1
Elongation at Break	Based on ISO 8339	>485 %
Tensile at Break	Based on ISO 8339	0.73 MPa
Secant Modulus@23°C at 100% elongation	Based on ISO 8339	0.33 MPa
Application Temp.	-	5°C to 30°C
Service Temp.	-	-40°C to 100°C
Lap Shear Strength (Al. to Al.)	Based on ASTM C961	1.06 MPa
Shelf Life	-	9 months

Caution:

Uncured sealant may cause skin, eye and respiratory system irritation. Use only in well ventilated areas. Use appropriate personal protection to avoid contact with skin and eyes. In case of eye contact or irritation, flush eye immediately with running water for 15 minutes and get medical attention. In case of skin contact, wash affected areas with hand cleaner followed

by soap in running water. For further health and safety information consult the current material safety data sheet.

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