

SM 1330

Mono-component Hybrid Polymer Adhesive/Sealant

PRODUCT DESCRIPTION

SM 1330 is a mono-component, medium module, neutral, hybrid polymer sealant, specially indicated to seal or glue many substrates, such as EPDM, aluminum, glass, PC, etc. It cures quickly at room temperature reacting with the air moisture. It does not contain solvent. It works from -40 °C up to 90 °C.

- Excellent adhesion to many materials
- Applicable to wet (not soaked) surface
- Quick cure
- Permanent elasticity

- Resists to UV and water (like silicone)
- Paintable (like polyurethane)
- Good resistance to chemicals
- No-toxic and odorless

This product can seal every kind of joints (vertical, horizontal, upside-down) and to glue in low responsibility applications. It can be used inside as well as outside in Industry, Construction, Automotive, Railway vehicle and Marine fields.

PRODUCT CHARACTERISTICS

Chemical Class	MS Polymer
Appearance(uncured)	White paste or Black paste
Components	Single-requires no mixing
Viscosity	Very high

TYPICAL PROPERTIES OF UNCURED MATERIALS

Specific gravity@23 °C	1.45
Extrusion rate,	
20 g 2 mm nozzle 45 psi, s	70
Tack-free time @23 °C 50% RH, min	25
Curing rate @23 °C 50% RH, mm	>3
Non-Volatile Materials, %	>99
Slump (vertical wall), ASTM D2202, mm	0
VOC, %	<1
Shelf life, mos	12

TYPICAL PROPERTIES OF CURED MATERIALS

Cured for 7 days at 23 °C and 50% RH	
Shore hardness	50A
Tensile strength, ASTM D412, MPa	3.3
Elongation at break, ASTM D412, %	500
Tensile strength at 100% elongation, ASTM D412, MPa	1.40
E modulus, ASTM D412, MPa	1.22
Ultraviolet aging resistance (year)	15
Lap shear strength	
Aluminum to Aluminum, MPa	2.3
SUS304 to SUS304, MPa	2.0
PC to PC, MPa	2.0
Aluminum to Glass, MPa	2.5

PROCESSING

On clean, sound and degreased surfaces. It can be used on wet (not soaked) surfaces. This product can be applied with a manual or pneumatic gun between +1°C and +35°C. Cut nozzle at 45° angle to desired thickness.

For uncured product, it can be easily eliminated by alcohol. Once cured, it can be eliminated only by mechanical means.

PRECAUTIONS

Please refer to the appropriate material safety data sheet (MSDS) prior to using this product.

STORAGE

Store the unopened product in a cool, dry, well ventilated location away from sources of heat. Optimal storage temperatures should range between **10 °C (50 °F) and 32 °C (90 °F)**. Product removed from the containers during use should not be returned to original containers in order to avoid potential contamination.

CONVERSIONS

$(^{\circ}\text{C} \times 1.8) + 32 = ^{\circ}\text{F}$
 $\text{kV/mm} \times 25.4 = \text{V/mil}$
 $\text{mm} / 25.4 = \text{inches}$
 $\mu\text{m} / 25.4 = \text{mil}$
 $\text{N} \times 0.225 = \text{lb}$
 $\text{N/mm} \times 5.71 = \text{lb/in}$
 $\text{N/mm}^2 \times 145 = \text{psi}$
 $\text{MPa} \times 145 = \text{psi}$
 $\text{N}\cdot\text{m} \times 8.851 = \text{lb}\cdot\text{in}$
 $\text{N}\cdot\text{m} \times 0.738 = \text{lb}\cdot\text{ft}$
 $\text{mPa}\cdot\text{s} = \text{cP}$

WARRANTY

ITW will replace any material found to be defective. Because the storage, handling and application of this material are beyond our control, we can accept no liability for the results obtained.

NOTE

The following supersedes any provision in your company's forms, letters and papers. ITW makes NO WARRANTY, WHETHER EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE FOR THIS PRODUCT. No statements or recommendations contained in the product literature are to be construed as inducements to infringe any relevant patent, now or thereafter in existence.

UNDER NO CIRCUMSTANCES SHALL ITW BE LIABLE FOR INCIDENTAL, CONSEQUENTIAL OR OTHER DAMAGES FROM ALLEGED NEGLIGENCE BREACH OF WARRANTY, STRICT LIABILITY OR ANY OTHER THEORY, ARISING OUT OF THE USE OR HANDLING OF THIS PRODUCT. The sole liability of ITW for any claims arising out of the manufacture, use or sale of its products shall be to refund the buyer's purchase price, provided such products have been demonstrated in ITW sole opinion, to justify such refund.

For technical assistance, please call:
86-021-54265119

FOR INDUSTRIAL USE ONLY