

SM 1030

Mono-component Hybrid Polymer Adhesive/Sealant

PRODUCT DESCRIPTION

SM 1030 is a mono-component, medium module, neutral, hybrid polymer sealant, specially indicated to seal or glue many substrates. 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 and Marine fields.

PRODUCT CHARACTERISTICS

Chemical Class MS Polymer

Appearance(uncured) White/Black/Grey 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	60
Tack-free time @23 ℃ 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 Tensile strength, ASTM D412, MPa Elongation at break, ASTM D412, % Tensile strength at 100% elongation, ASTM D412, MPa E modulus, ASTM D412, MPa Ultraviolet aging resistance (year)	50A 3.0 600 0.90 0.74 15
Lap shear strength Aluminum to Aluminum, MPa SUS304 to SUS304, MPa PC to PC, MPa Aluminum to Glass, MPa	2.2 2.2 1.8 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

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(°C x 1.8) +	32 = °F
kV/mm x 25	5.4 = V/mil
mm / 25.4 :	= inches
μm / 25.4 =	mil
N x 0.225 =	lb
N/mm x 5.7	'1 = lb/in
N/mm ² x 14	15 = psi
MPa x 145	= psi
N·m x 8.851	L = lb∙in
N·m x 0.738	3 = Ib∙ft
N·mm x 0.1	42 = oz∙in
mPa·s = 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.

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