

DESCRIPTION

SM2 is a multi-purpose, resilient joint sealant that combines economy and high performance. It is ideal for a wide range of applications where joint movement requires compression and extension in excess of 25%. Because SM2 is a moisture-curing polyether sealant, it is effective in damp, dry or cold climates and is free of solvents and isocyanates. It will not shrink upon curing, bubble on damp surfaces as polyurethanes sealants often do, or discolor when exposed to UV light. SM2 has excellent elastomeric properties and adheres to most construction materials including difficult surfaces such as Kynar 500® PVDF and other anodized metals and coatings. SM2 is effective in many difficult construction site conditions: It can be applied to damp surfaces at temperatures as low as 32°F (0°C).



- Solvent free, 100% solids will not shrink
- 30 minute skin over
- No outgassing on damp surfaces
- Non-slump, applies vertically and overhead
- Color stability, will not suntan
- Designed specifically for use with ElevationTM Sheet Waterproofing System

TECHNICAL DATA

Applicable Performance Standards

- ASTM C920, Type S, Grade NS, Class 25, Uses NT, T2, M, G, A & O
- Federal Specification TT-S-00230-C Type II, Class B
- Corps of Engineers CRD-C-541, Type II, Class B
- Canadian Standards Board CAN 19, 13-M82

Green Standards

- LEED 2.2 for New Construction and Major Renovations: Low Emitting Materials (Section 4.1): 1 Point
- NAHB Model Green Home Building Guidelines: 5 Global Impact Points
- VOC Content: less than 19 grams / liter ASTM D2369 EPA Method 24 (tested at 240°F / 115°C)

Regulatory Compliance

- Conforms to OTC Rule for Sealants
- Meets requirements of California Regs: CARB, BAAQMD and SCAQMD
- Conforms to California Proposition 65
- Conforms to USDA Requirements for Non-food Contact

TYPICAL PHYSICAL PROPERTIES

Typical Physical Properties		
Gun Grade	Zero Slump	
Viscosity	862,100 cp	Brookfield RVF Spindle, 4 RPM 73°F (23°C)
Density	13.2+/- 0.2 lbs per gallon	ASTM D1475
Tack Free Time	30 min +/- 10 min	45 +/- 5 % R.H.
Elongation at Break	375%	ASTM C679
Hardness Shore A	25 +/- 3	ASTM C661

Typical Physical Properties		
Shear Strength	157 psi	ASTM D1002
Tensile Strength	172 psia	ASTM D412
Low temp. Flex	Pass -10°F (-23°C) 1/4 inch mandrel	ASTM D816
Shrinkage	No visible shrinkage after 14 days	
Service Temperature	-40°F to 200°F (-40°C to 93°C)	

PACKAGING

30oz Tubes, 12 Tubes Per Box

INSTALLATION

SURFACE PREPARATION

Concrete: Prior to application remove any residual contamination by mechanical abrasion, sand blasting or power washing. On green concrete, remove all release agents, friable and loose concrete. Dry all visible and standing water prior to applying SM2 Sealant. Install an appropriate backer rod to avoid three-point bonding.

Metal: Prepare all metal to ensure maximum adhesion. Remove all rust, scale and residue by wire brushing to a bright metal sheen. Remove films, loose or inappropriate coatings and oils with an appropriate solvent such as alcohol.

**FORMULATED MATERIALS recommends that coated substrates be tested for adhesion prior to starting a project. Please contact our Technical Department for specific application guidelines and recommendations.*

Wood: Material should be clean, sound and dry prior to sealant application. Allow treated wood to weather for six months prior to application. Remove all coatings and paint (or test for compatibility) to ensure proper bonding.

Do not use on fire retardant lumber.

PRIMER

In most instances SM2 will not require a primer. However, certain applications or substrates may require a primer to ensure a long lasting bond and weatherproof seal. It is the applicator's responsibility to determine the need for a primer. Formulated materials recommends a primer be used for any application where prolonged immersion is anticipated.

APPLICATION

Remove all dirt, oil, loose paint, frost and other contamination from all working surfaces with alcohol. DO NOT USE petroleum solvents such as mineral spirits or xylene. Maintain SM2 at room temperature before applying to ensure easy gunning and tooling. Test and evaluate to ensure adequate adhesion. Using a caulk gun, carefully apply a smooth, continuous 3/8" bead of sealant along seam. Tool all surfaces within fifteen minutes of application to a depth of 1/8" at the seam and extending 3/4-1" to either side of the seam for a finished width of 1 1/2-2".

For applications below 32°F (0°C) contact Formulated Materials for more information.

For further installation instructions and system recommendations, please contact Formulated Materials.

CLEAN-UP

Wet sealant can be removed using a solvent such as alcohol. Cured SM2 can be removed by abrading or scraping the substrate.

STORAGE

Storage: Store original, unopened containers in a cool, dry area. Protect unopened containers from water, heat and direct sunlight. Elevated temperatures will reduce shelf life. SM2 will not freeze. Do not store in elevated temperatures.

Shelf Life: Twelve months from date of manufacture when stored at 70°F / 21°C with 50% relative humidity. High temperature and high relative humidity may significantly reduce shelf life. Pails have a shelf life of six months.

CAUTION

Avoid prolonged contact with skin. Uncured adhesive irritates eyes. In case of contact with eyes immediately flush with water. Call a physician. Please refer to the SDS for First Aid information. Contact Formulated Materials for most current SDS. KEEP OUT OF REACH OF CHILDREN.