



TopShield® PRO M-1® is a non-sag and moisture-curing, hybrid-polymer (STPE). Formulated as a high-performance elastomeric sealant and adhesive, it can be applied in wet and dry conditions and in temperatures as low as 32 °F (0 °C). M-1® is solvent-free, low-odor, UV stable, and contains no isocyanates. M-1® will not shrink or crack during the curing process, maintaining the waterproof seal and preserving an aesthetic finish.

Item Code:	Size:	Description:	Quantity:	Pallet Qty
TOPF1270BLTS	10.1 OZ	TOPSHIELD PRO M-1 BLACK	24 - Case	1,080 - Tubes
TOPF1270GRS	10.1 OZ	TOPSHIELD PRO M-1 GRAY	24 - Case	1,080 - Tubes
TOPF1270WHTS	10.1 OZ	TOPSHIELD PRO M-1 WHITE	24 - Case	1,080 - Tubes

FEATURES

- Solvent-free, 100% solids will not shrink
- Non-slump, applies vertically and overhead
- 20-minute skin over
- No outgassing on damp surfaces
- Good color stability, will not suntan
- Paintable after 24 hours
- Gun grade, no special tools or mixing required
- Application at temperatures as low as 32°F (0°C)
- Made in the USA - ISO 9001:2015 certified

APPLICABLE PERFORMANCE STANDARDS

- ▶ ASTM C920, Type S, Grade NS, Class 25, Uses NT, 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

REGULATORY COMPLIANCE

- ▶ Conforms to OTC Rule for Sealants and Caulks
- ▶ Meets requirements of California Regs: CARB, BAAQMD and SCAQMD
- ▶ This product does not contain cancer causing chemicals listed in California Proposition 65
- ▶ Conforms to USDA Requirements for Non-food Contact

BASIC USES

- ▶ Expansion joints
- ▶ Pre-cast Concrete
- ▶ Block and Masonry
- ▶ Window and door frames
- ▶ Siding
- ▶ Parapets
- ▶ Cove Joints
- ▶ Transportation
- ▶ Weather Sealing

COMPATIBLE SUBSTRATES

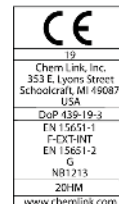
- ▶ EPDM and SBS Mod Bit
- ▶ Asphalt Shingles
- ▶ Aluminum and Galvanized Metal
- ▶ Stainless Steel
- ▶ Engineered Plastics, PVC
- ▶ Glass
- ▶ Fiberglass FRP
- ▶ Wood
- ▶ Block and Brick
- ▶ EPS Foam
- ▶ Concrete and Stone
- ▶ Steel or Corten Steel

GREEN STANDARDS

- VOC Content: less than 10 grams / liter ASTM D2369 EPA Method 24 (tested at 240°F / 115°C)
- EQc2: BPDO – Low emitting Materials: TopShield® PRO adhesives and sealants are low-VOC products when exterior applied.



Scan the QR code to access additional information.



APPLICATION GUIDELINES

CONCRETE APPLICATION

Prior to application remove any residual contamination by mechanical abrasion, sand blasting or power washing. Remove all release agents, friable and loose concrete. Dry all visible and standing water prior to applying TopShield® PRO CLEAR. Install an appropriate backer rod to avoid three-point bonding.

METAL APPLICATION

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.*

**TopShield® PRO recommends that substrates be tested for adhesion prior to starting a project. Please contact Technical Services for specific application guidelines and recommendations.*

PRIMING

In most instances TopShield® PRO CLEAR 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. TopShield® PRO recommends a primer be used for any application where prolonged immersion is anticipated.

APPLICATION INSTRUCTIONS

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 TopShield® PRO CLEAR at room temperature before applying to ensure easy gunning and tooling. Test and evaluate to ensure adequate adhesion. Carefully gun the sealant with a smooth, continuous bead. If tooling is needed, do so within fifteen minutes of application.

TYPICAL PHYSICAL PROPERTIES / DATA TESTING

PROPERTY	VALUE	TEST METHOD
Rheological Property	Type II—Single-component non-sag	ASTM C639
Density	8.4 - 8.8 lbs per gallon	ASTM D1475
Tack Free Time	20 ± 10 min	45 ± 5 % R.H
Elongation at Break	425% ± 75	ASTM D412
Hardness Shore A	23 ± 3	ASTM C661
Tensile Strength	230 ± 30 psi	ASTM D412
Shear Strength	260 ± 40 psi	ASTM D1002
Low Temperature Flex	Pass -15°F (-26°C) 1/4 in mandrel	ASTM D522
Shrinkage	No Visible Shrinkage After 14 Days	—
Service Temperature	-40°F to 200°F (-40°C to 93°C)	—

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. See www.chemlink.com for most current SDS. KEEP OUT OF REACH OF CHILDREN

CLEAN-UP

Wet sealant can be removed using a solvent such as alcohol. Cured TopShield® PRO CLEAR can be removed by abrading or scraping the substrate.

STORAGE & HANDLING

Store original, unopened containers in a cool, dry area. Protect unopened containers from water, heat and direct sunlight. Elevated temperatures will reduce shelf life. TopShield® PRO CLEAR will not freeze.

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.

LIMITATIONS

- ▶ In areas where prolonged chemical exposure is anticipated, contact Technical Services for recommendations (800-826-1681).
- ▶ Allow treated wood to "cure" for six months prior to application per APA guidelines.
- ▶ Do not use in areas subject to continuous immersion.
- ▶ Do not store in elevated temperatures.
- ▶ Remove all coatings and sealers before application.
- ▶ Please contact customer service for application guidelines with temperatures below 32°F (0°C).
- ▶ Test and evaluate all paints before application.
- ▶ Polyurethane and oil based paints may dry slowly.
- ▶ Does not bond to Kynar 500® PVDF coated metal.

All properties described in this document are derived from testing conducted in laboratory conditions. Properties and performance will vary depending on environmental conditions and application technique. Test and evaluate to determine appropriate usage. Visit www.TopShieldProducts.com for the Safety Data Sheet, Technical Data Guides, Cold Weather Application Guidelines and full warranty for this product.

