



Thermoplastic Single Ply and Multi-Ply Roofing Systems

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FLEX TPO PLUS THERMOPLASTIC POURABLE SEALER **TECHNICAL DATA SHEET**

GENERAL:

Flex Thermoplastic One-Part Pourable Sealer is a one-part, moisture curing, elastomeric polyether sealant providing rapid skin time when exposed to atmospheric moisture forming a waterproof rubber surface in less than an hour. Moisture curing continues for fourteen to twenty-eight days, until a two-inch deep solid rubber seal encases the penetration. Complete cure time will vary depending on relative humidity and temperature.

This product is designed for use with the Flex TPO Plus Molded Sealant Pocket. The Flex Thermoplastic Pourable Sealer's consistency allows for quick pocket filling without mixing. Flex Sealant Primer must be applied to all surfaces that will be in contact with the Thermoplastic One-Part Pourable Sealer. Unused sealant remaining in the pouch will remain useable up to 30 days if pouch is resealed with original cap.

TYPICAL PROPERTIES AND CHARACTERISTICS:

| <u>Property</u> | <u>Typical Value</u> |
|--|--|
| Specific Gravity | 1.37 (11.5 lbs/gallon) – 1.44 (12.0lbs/gallon) (1.38 kg/liter) (1.44 kg/liter) |
| Viscosity (Brookfield RTV), cps | Self leveling 20,000 – 50,000 |
| Color | White |
| Odor | Mild ester smell (mint) when wet. Odorless when dry |
| Elongation @ Break, % - (7 day ambient cure) | ASTM D-0412 450 |
| Hardness, (Shore A) | ASTM C-0661 25 - 35 |
| Tack Free Time - @ 70 degrees F. (21 degrees C) | ASTM C-0679 Less than 1 hour |
| Low temperature flex PASS | Minus 20 degrees F. (Minus 29 degrees C) |
| Shrinkage (14 day cure) | No measurable shrinkage |
| Service temperature | ASTM 2453 Minus 40 degrees F to 200 degrees F. (Minus 40 degrees C to 93 degrees C) |
| Long term weatherability - 98 cycles @ 12 hours/cycle - Condensate exposure: 4 hrs @ 122°F(50°C) - U.V. exposure – 8 hrs @ 158°F (70°C) | ASTM G53 No crazing or cracking |
| Packaging | 4- 0.5 gallon pouches per bucket (4-2 liter) |
| Weight Per Carton | 29 lbs. / bucket (13.15 kg) |
| Shelf Life (unopened container) | 18 months |

CAUTIONS AND WARNINGS:

1. Uncured adhesive irritates eyes.
2. Avoid prolonged skin contact.
3. Keep out of the reach of children!
4. In case of eye contact immediately flush eyes with water, and call a physician.
5. See Material Safety Data Sheet for complete safety information before using product.

COVERAGE:

One 0.5-gallon pouch (2-liter) will fill 122 cubic inches of volume within a sealant pocket. One Flex TPO Plus Molded Sealant Pocket will require 0.46 gallons (1.75 liters) to fill completely (with no penetrations).

APPLICATION:

TPO Installation:

1. Bonding surfaces must be free of moisture, dirt, or any contaminants. Any previously applied asphalt, caulking, or sealants must be removed from the penetration(s).
 2. Clean all surfaces with Flex's TPO Plus Weathered Membrane Cleaner.
 3. Fill any voids in the roof deck around the penetration(s) to prevent sealant from seeping through roof.
 4. Flex Sealant Primer is required. Apply the primer to all bonding surfaces including penetration(s), TPO membrane, inside walls and rim of the Flex TPO Plus Molded Sealant Pocket. Allow primer to dry.
 5. Remove cap from 0.5-gallon (2-liter) pouch and pour Flex Thermoplastic One-Part Pourable Sealer directly into pocket. Fill pocket completely until rim is covered with Thermoplastic One-Part Pourable Sealer making sure all voids are filled.
- To save unused sealant, squeeze air from pouch and replace cap. Unused sealant should be used within 30 days.
 - For best results maintain this product at room temperature before application.
 - For cold weather applications remove any frost or moisture from inside pocket using a hand held heat gun. Proceed with installation steps for the appropriate product.