THIOKOL®

200E

TECHNICAL DATA SHEET

Industrial Polysulfide Joint Sealant, Self Leveling, Fast Set

DESCRIPTION

Thiokol 200E is a rapid curing, two component, jet fuel and jet blast resistant, cold applied sealant. Due to its polysulfide polymer content, it is resistant to many chemicals, shrinkage, aging, thermal stress and the effects of outdoor exposure.

TYPICAL APPLICATION

• Backer Rod	Customer supplied
• Sealant	Thiokol 200E

PERFORMANCE DATA

Tensile Strength (ASTM D-412) ..... 90 psi
Elongation (ASTM D-412) 200%
Hardness, Shore A (ASTM D-2240) 10–20
Joint Movement ..... ± 25%
VOC ..... 0.00 lb/gal; 0.00 gm/L
Volume Solids 100%

STORAGE & INSTALLATION

Storage Environment ..... Dry area, 65–80ºF
Application Temperature, ambient 40–95ºF
Application Temperature, substrate .....Minimum 5ºF above dew point
Shelf Life .....1 year
Pot Life, @ 77ºF..... 5 minutes
Tack Free, @ 77ºF ..... 2 hours
Traffic, @ 77ºF.....4–6 hours
Full Cure, @ 77ºF.....24 hours

Material cures more slowly at cooler temperatures, and working time will be substantially reduced at higher temperatures. In hot weather, material should be cooled to 65ºF to 80ºF prior to mixing and application to improve workability and avoid shortened pot life. The data shown above reflects typical results based on laboratory testing under controlled conditions. Reasonable variations from the data shown above may result.

CONSIDERATIONS & LIMITATIONS

1. This product is self leveling to no more than 5% grade.
2. Do not thin with solvents unless advised to do so by PolySpec.
3. Confirm product performance in specific chemical environment prior to use.
4. Prepare substrate according to “Surface Preparation” portion of this document.
5. Always use protective clothing, gloves and goggles consistent with OSHA regulations during use. Avoid eye and skin contact. Do not ingest or inhale. Refer to Material Safety Data Sheet for detailed safety precautions.
6. For industrial/commercial use. Installation by trained personnel only.

BENEFITS

- *Resistant to jet fuels, lubricating oils and other chemicals*
- *Jet blast resistant*
- *Fast set*
- *Resists effects of sunlight, rain, snow, ozone, aging, shrinkage and cyclic temperature changes, even after years of service*
- *Contains no volatile solvents*
- *No coal tar fillers added*

RECOMMENDED USES

Sealing joints & cracks

- *Concrete roadways*
- *Airport runways*
- *Parking garages*
- *Secondary containment*

APPROVALS

- *MIL SS-S-00200E*

GENERIC DESCRIPTION

Polysulfide Sealant

STANDARD COLORS

Black, Gray

PACKAGING

10-Gallon Unit

100-Gallon Unit

COVERAGE

JOINT SIZE	COVERAGE PER GALLON
1/2" W x 1/4" D	150 linear ft
1/2" W x 3/8" D	100 linear ft
3/4" W x 3/8" D	65 linear ft
3/4" W x 1/2" D	50 linear ft
1" W x 1/2" D	35 linear ft
1" W x 3/4" D	25 linear ft

Coverages are theoretical only.

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SURFACE PREPARATION

Concrete: Apply only to clean, dry and sound concrete substrates that are free of all coatings, sealers, curing compounds, oils, greases or any other contaminants.

- *New concrete should be cured a minimum of 28 days.*
- *Concrete that has been contaminated with chemicals or other foreign matter must be neutralized or removed.*
- *Remove any laitance or weak surface layers.*
- *Concrete should have a minimum surface tensile strength of at least 300 PSI per ASTM D-4541.*
- *Surface profile shall be CSP-3 to CSP-5 meeting ICRI (International Concrete Repair Institute) standard guideline #03732 for coating concrete, producing a profile equal to 60-grit sandpaper or coarser. Prepare surface by mechanical means to achieve this desired profile.*
- *Blow joint with compressed air to remove dust, standing water and other potential contaminants.*

Steel: For immersion service, "White Metal" abrasive blast with an anchor profile of 2–4 mils in accordance with Steel Structures Painting Council Specification SP-5-63 or NACE No. 1 is required. For splash and spillage exposure, "Near White" SP-10-63 or NACE No. 2 is required.

Refer to PolySpec Surface Preparation Guidelines for more details.

INSTALLATION STEPS

1. Install a backer rod into the joint; the backer rod should be compressed 25%. When a backer rod is not feasible, bond breaker tape is acceptable.
2. Apply product using plural component equipment (such as Graco Hydra-Cat). Thorough blending of the components is essential for maximum performance of the Thiokol 200E sealant.

   For best results, the proportioning pump should be fed with supply pumps. Part A and Part B from the proportioning pump can be fed into a manifold. The base and catalyst are simultaneously controlled by a single lever connected to separate ball valves. This metered material flows into a static mixer as it is extruded into the properly prepared joint.

   A minimum of twenty-four (24) elements in the mixer is needed to give sufficient mixing.

   The manifold can include a separate solvent port to clean out the mixer once the installation is complete.

   Thiokol 200E Part A and Part B should be maintained at 70–90ºF to improve the mixing and curing of the product.

   NOTE: If the material is mixed at lower temperature, increased pressures will be needed to extrude the sealant. The cure time will also be lengthened at lower temperature. In order to maintain the temperature of the Thiokol 200E, store Part A and Part B in a temperature controlled environment prior to use.

   Fill joint completely.
3. For best results, clean tools and equipment with PolySpec® All Purpose Cleaner, a nonflammable and non-evaporating cleaner. Always wear gloves when using this product.

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