



## TECHNICAL DATA SHEET – POLYSPEC® 196SL

Revised: 4/2018

### DESCRIPTION

PolySpec 196SL is a high performance fluoroelastomer coating for use over THIOKOL® Sealants where increased chemical resistance is required. It is recommended for resistance to many aggressive chemicals at elevated temperatures.

### TYPICAL APPLICATION

PRIMER	THIOKOL® 5050 Primer @ 3–5 mils (concrete) 2–3 mils (steel)
BACKER ROD	Customer supplied
SEALANT	THIOKOL® 2235M
BONDING AGENT	PolySpec 196BA @ 1–2 mils
BASECOAT	PolySpec 196SL @ 20–25 mils WFT
TOPCOAT	PolySpec 196SL @ 20–25 mils WFT

### PERFORMANCE DATA

TENSILE STRENGTH (ASTM D - 638)	900 psi
ELONGATION (ASTM D - 2370)	150%
PEEL STRENGTH (ASTM C-794)	100 lbs

### BENEFITS

- Retains flexibility even as concrete moves
- Resistant to aggressive chemicals at service temperatures from -40°F to 400°F
- Resistant to ozone, sunlight and UV radiation, maintaining superior bond and flexibility in outdoor applications
- Achieves chemical resistance benefits off fluoroelastomer sealants at a lower cost
- Excellent chemical resistance to concentrated sulfuric acid, 73% nitric acid, phosphoric and hydrochloric acid; also resists petroleum products, many chlorinated solvents and aggressive chemicals such as aniline and phenol

### RECOMMENDED USES

- Chemical containment dikes exposed to aggressive chemical spills
- Chemical process areas - Chemical plants - Semiconductor facilities
- Hazardous waste treatment, storage and unloading areas
- Truck and rail loading/unloading areas

### GENERIC DESCRIPTION

Fluoroelastomer

**STANDARD COLORS:** Black

**PACKAGING:** 1-Quart Unit

**MIX RATIO:** 1R:1H

# POLYSPEC® 196SL

## INDUSTRIAL JOINT SYSTEM, CHEMICAL RESISTANT COATING

**COVERAGE:**

20 ft<sup>2</sup> / gallon @ 40 mils WFT (includes two coats @ 20 mils WFT each)  
16 ft<sup>2</sup> / gallon @ 50 mils WFT (includes two coats @ 25 mils WFT each)

**STORAGE & INSTALLATION**

STORAGE ENVIRONMENT	Dry area, 65-80°F
APPLICATION TEMPERATURE, AMBIENT	50-95°F
SERVICE TEMPERATURE	-40°-400°F
APPLICATION TEMPERATURE, SUBSTRATE	Minimum 5°F above dew point
SHELF LIFE	6 months
POT LIFE, @ 77°F	4 hours
FULL SERVICE, @ 77°F	3-5 days

*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 65°F to 80°F 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. PolySpec 196SL is suited for indoor and outdoor use.
2. PolySpec 196SL is not recommended for ketone solvents and esters (such as ethyl acetate) or strong alkaline compounds.
3. Do not thin with solvents unless advised to do so by ITW Polymers Sealants North America, Inc.
4. Confirm product performance in specific chemical environment prior to use.
5. Prepare substrate according to "Surface Preparation" portion of this document.
6. Always use protective clothing, gloves and goggles during use. Avoid eye and skin contact. Do not ingest or inhale. Refer to Safety Data Sheet for detailed safety precautions.
7. For industrial/commercial use. Installation by trained personnel only.

**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.
- Moisture vapor transmission should be 3 a 24 hour time period, as confirmed through a calcium chloride test, as per ASTM E-1907. Quantitative relative humidity (RH) testing, ASTM F-2170, should confirm concrete RH results < 75%.
- All surface irregularities, cracks, expansion joints and control joints should be properly addressed prior to application.

Refer to PolySpec Surface Preparation Guidelines for more details.

**INSTALLATION STEPS**

**NOTE:** This product is typically installed as part of a THIOKOL Sealant System. Refer to THIOKOL 2235M or THIOKOL 2235SL technical data sheet for detailed sealant application instructions.

1. Using a clean white rag, apply a very thin (1-2 mils WFT maximum) layer of Bonding Agent directly to the exposed polysulfide sealant surface.  
**NOTE:** Excess bonding agent can weaken adhesion
2. Allow to dry for a minimum 16 hours.  
**NOTE:** The 196BA will appear to dry instantly. The 16 hour dry time is necessary, however, for reaction between the polysulfide sealant and bonding agent to occur.
3. Mask off the edges of the expansion joint using masking or duct tape, leaving 1/4" to 1/2" of concrete exposed.
4. PolySpec 196SL Component A Resin should be premixed prior to using due to possible pigment settling that may occur during transportation and storage. Using a broad spatula or paint stick, scrape the bottom and sides of the can thoroughly and feel for any undispersed materials clinging to the spatula.
5. Slowly pour Component B Hardener into the resin. Mix at low speed to avoid introducing substantial amounts of air into the liquid.
6. Cover the container and allow the catalyzed material to rest approximately 10 minutes. This will allow any air entrapped during mixing to escape.  
**NOTE:** Keep the accelerated material covered when not in use. Air exposure increases the viscosity of the material.
7. Apply a 20-25 mil WFT coat of PolySpec 196SL by brush or roller.
8. Allow the first coat to dry for 20-30 minutes before applying a second coat of PolySpec 196SL.  
**NOTE:** Keep the accelerated material covered when not in use. Air exposure increases the viscosity of the material.
9. Pull the masking tape 10-15 minutes after the second coat is applied.
10. Always wear gloves when using this product.

C-R/H / DOC PS196SL-TDS  
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