



TECHNICAL DATA SHEET – POLYSPEC® 193

Revised: 2/2017

DESCRIPTION

PolySpec 193, a high performance, 100% solids semi-rigid epoxy control joint filler, is formulated for applications requiring a combination of resiliency and tensile strength. Because of its high strength-to-flexibility ratio, it minimizes the spalling effects of forklifts and small hard wheel traffic on joint edges. PolySpec 193 is offered in two grades: Pourable (for horizontal surfaces) and Paste (non-sag for vertical and overhead surfaces).

PERFORMANCE DATA

COMPRESSIVE STRENGTH (ASTM C - 579)	800-850 psi
TENSILE STRENGTH (ASTM C - 412)	850-1,050 psi
ADHESION STRENGTH (ASTM D - 4541)	500-600 psi
HARDNESS, SHORE D (ASTM D - 2240)	45-55
HARDNESS, SHORE A (ASTM D - 2240)	90-100
C-TEAR, LBS/IN (ASTM D - 624)	100-150
VOLUME SOLIDS	100%

BENEFITS

- Superior adhesion when compared to polyureas
- Withstands steel wheel vehicular traffic
- Flexible epoxy prevents age hardening
- High resistance to penetration
- Limits joint deflection
- Protects control joints and saw cuts from deterioration
- Inert micro-fibers serve as reinforcing bars that strengthen sealant even as it moves under load

RECOMMENDED USES

- Warehouse floors & docks
- Convention centers, exhibition halls & stadiums
- Mechanical assembly bays with heavy foot and vehicular traffic
- Vertical and overhead surfaces

GENERIC DESCRIPTION:

Polysulfide-Modified Epoxy Sealant

STANDARD COLORS:

Gray

PACKAGING:

2-Gallon Unit
AVAILABLE IN POURABLE OR PASTE
(NON-SAG) GRADE

MIX RATIO:

1R : 1H

POLYSPEC® 193
EPOXY CONTROL JOINT SEALANT, SEMI-RIGID

COVERAGE:

JOINT SIZE	COVERAGE PER GALLON
1/2" W x 1/4" D	154 linear ft
1/2" W x 3/8" D	102 linear ft
3/4" W x 3/8" D	68 linear ft
3/4" W x 1/2" D	51 linear ft
1" W x 1/2" D	38 linear ft
1" W x 3/4" D	25 linear ft

STORAGE & INSTALLATION

STORAGE ENVIRONMENT	Dry area, 65-80°F
APPLICATION TEMPERATURE, AMBIENT	50-95°F
APPLICATION TEMPERATURE, SUBSTRATE	Minimum 5°F above dew point
SHELF LIFE	6 months
POT LIFE, @ 77°F	25-30 minutes
FOOT TRAFFIC, @ 77°F	4 hours
FULL SERVICE, @ 77°F	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 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. This product is recommended for indoor joint sealing applications.
2. For overhead applications, use PolySpec 193 Paste grade.
3. Do not thin with solvents unless advised to do so by ITW Engineered Polymers.
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 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.
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.
- Blow joint with compressed air to remove dust, standing water and other potential contaminants.

Refer to PolySpec Surface Preparation Guidelines for more details.

INSTALLATION STEPS

1. Tape all sloping joints. Apply a backer rod or other type of bond breaker into the joint, if applicable.
NOTE: Ideally, the joint depth should be one half the joint width.
2. Pour (pourable grade) or scoop (paste grade) Component A Resin and Component B Hardener into a separate clean mixing pail. Mix well with a mechanical jiffy-type mixer operated at low speed for 3–5 minutes, or until uniform in color.
NOTE: Do not dilute or alter TuffRez 193. Mix entire contents of kit.
3. **Pourable Grade:** Pour into joint using a pour can with a spout suited for the joint size.
Paste Grade: Trowel mixed material into joint.
NOTE: For best results, apply when the application temperature is closest to the mean temperature for the area.
4. Always wear gloves when using this product when using this product.

1R:1H / DOC PS193-TDS

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