

DESCRIPTION

PolySpec 731 is a polyester putty material used with polyester and vinyl ester lining systems. It is used primarily to round the corner radius at vertical to horizontal transitions in steel and concrete prior to lining applications.

PERFORMANCE DATA

Tensile Strength (ASTM D-412).....	1,800 psi
Bond Strength (ASTM D-4541).....	300 psi
Viscosity	Heavy Paste
VOC	0.405 lb/gal; 296 gm/L

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, PROVIDED STORAGE ENVIRONMENT GUIDELINES ARE FOLLOWED	60 days
Pot Life, @ 77°F.....	20–25 minutes
Set Time, @ 77°F	2–4 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. Do not install in thicknesses greater than 1/2" in one application.
2. Unlike epoxies, PolySpec 731 does not build up heat until after the initial set has occurred, making his product well suited for use on horizontal and vertical surfaces.
3. Do not thin with solvents unless advised to do so by PolySpec.
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.

PolySpec[®] 731

TECHNICAL DATA SHEET

Non-Sag Gel, for use with Vinyl Esters & Polyesters

BENEFITS

- Anti-sag formula
- Long recoat times
- Ease of application
- Suited for horizontal and vertical surfaces

RECOMMENDED USES

- Round the corner radius at vertical to horizontal transitions
 - concrete walls and pedestals
 - steel tank chimes
- Smooth welds
- Fill small pits and voids in concrete
- General purpose patching

GENERIC DESCRIPTION

Polyester Putty

STANDARD COLORS

Amber

PACKAGING

1-Gallon Unit

COVERAGE

231 in³ / gallon

6 ft² / gallon @ 1/4" thickness

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 pounds or less per 1,000 square feet over 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%.*

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. Prime surface with PolySpec 310 or 320 Primer. See data sheet for installation instructions.
2. Pour clear catalyst Hardener #1 into putty container. Stir well for one minute using a mechanical jiffy-type mixer operated at low speed.

For best results (due to pot life), mix small quantities of PolySpec 731 at a time.

MIX RATIO	
• PolySpec 731 Putty	1 gallon
• Hardener #1	2 ounces

3. Trowel material onto surface using a spatula, putty knife or trowel.
NOTE: Do not install in thicknesses greater than 1/2" in one application.
4. To smooth the surface, lightly brush the putty with a brush dipped in PolySpec Smoothing Liquid #1.
NOTE: Some shrinkage may occur.
5. A second coat can be applied up to 72 hours after the first application.
NOTE: Minimum recoat time is 2 hours @ 75°F.
6. 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.

1gal Putty : 2 oz H / DOC PS731-TDS

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