

DESCRIPTION

FNEC 2369 is a 100% solids, multi-functional, two-component polymer coating suited for concrete substrates in aggressive chemical environments. The coating combines epoxy novolac resin with a special “stress-relieving” additive to provide maximum durability and superior concrete compatibility.

TYPICAL APPLICATION

• Primer	PolySpec 300EX @ 5–7 mils
• Basecoat	FNEC 2369 @ 15–16 mils
• Topcoat	FNEC 2369 @ 15–16 mils
• Options	Non-Skid Grit @ 0.50 lbs/ft ²

PERFORMANCE DATA

Compressive Strength (ASTM C-579)	20,000 psi
Tensile Strength (ASTM D-638)	4,000 psi
Flexural Strength (ASTM C-580)	4,300 psi
Bond Strength (ASTM D-4541)	425 psi
Abrasion Resistance, 500 cycle/CS-17, 500 gm (ASTM D-4060)	90 mg
VOC	0.0 lb/gal; 0.0 gm/L
Volume Solids	100%

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	1 year
Pot Life, @ 77°F	30 minutes
Foot Traffic, @ 77°F	16 hours
Full Service, @ 77°F	5–7 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. Do not use as a steel tank lining unless written approval by PolySpec Technical Services has been obtained.
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. Do not apply to slabs on grade unless a heavy unruptured vapor barrier has been installed under the slab.
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.

THIOKOL[®] FNEC[®] 2369

TECHNICAL DATA SHEET

Concrete Coating, Semi-Flexible Novolac Epoxy

BENEFITS

- Maximum resistance to 98% sulfuric acid, urea ammonium nitrate (UAN), and other aggressive chemicals
- Superior thermal compatibility with concrete
- Improved thermal shock resistance
- 100% solids, zero VOC formulation
- No heat or baking required
- Superior flexibility compared to conventional novolac coatings

RECOMMENDED USES

- Process area floors
- Truck loading/unloading areas
- Secondary containment dikes
- Pump pads, pedestals, curbs
- Underground fuel storage tanks

GENERIC DESCRIPTION

Polysulfide-Modified Novolac Epoxy

STANDARD COLORS

Light Gray, Tile Red

Additional colors available upon request. Non-stocking colors may be subject to additional lead time, minimum order requirements, and a slight premium.

PACKAGING

3-Gallon Unit

COVERAGE

100 ft² / gallon @ 16 mils

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%.*
- *All surface irregularities, cracks, expansion joints and control joints should be properly addressed prior to application.*
- *Outgassing may occur due to the porosity of some concrete surfaces. To reduce the effect of outgassing, the primer and coating should be applied when the temperature of the concrete substrate is dropping. This usually occurs in the evening; however, the concrete substrate temperature should be measured with a surface thermometer for verification. Double priming will greatly reduce the effects of outgassing by additionally filling the pores in the concrete.*

Refer to PolySpec Surface Preparation Guidelines for more details.

INSTALLATION STEPS

1. Prime surface with PolySpec 300EX Primer. See data sheet for application details.
2. Component A Resin should be premixed prior to using due to possible pigment settling that may occur during transportation and storage.
3. Pour Component B Hardener into the Component A Resin pail and mix well with a mechanical jiffy-type mixer operated at low speed. Scrape the side of the pail to ensure the entire product has been properly mixed; any unmixed material left on the side of the pail will not cure.

NOTE: Do not turn the pail upside down and allow to drain onto substrate.

4. Apply by brush, roller or spray application. Move quickly and empty contents of pail onto surface as soon as possible to provide maximum working time. Material left in the pail will generate heat and have a reduced pot life.
5. OPTIONAL STEP: When applied as a non-skid coating, broadcast clean, dry 20/40-mesh sand or aluminum oxide aggregate into wet resin. Allow to dry. A full broadcast to refusal will produce the most consistent and durable system. Brush off excess grit before applying second coat.

NOTE: Broadcast grit into the basecoat of FNEC 2369. Do not broadcast into the prime coat.

6. After the first coat has become slightly tack free (within approximately 4 hours @70°F), apply an additional coat of resin/hardener mixture according to Step 4.

NOTE: If the first coating becomes, glossy and/or hard to the touch, a light sanding followed by a wipe with a 50:50 mixture of water and isopropanol will be necessary before applying the second coat. Allow the solvent to flash before applying coating.

7. 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.

2R:1H / DOC FNEC2369-TDS

Rev 03/05

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