

DESCRIPTION

Thiokol FNEC 2515 is a 100% solids, two-component, flexible novolac epoxy coating suited for use on concrete and steel substrates. It provides protection from chemical attack and environmental degradation in primary and secondary containment applications.

TYPICAL APPLICATION

• Primer	PolySpec 300EX @ 5–7 mils (concrete) or PolySpec TITE M-50 @ 4–5 mils (steel) (steel surfaces may not require a primer)
• Basecoat	FNEC 2515 @ 16–20 mils
• Topcoat	FNEC 2515 @ 16–20 mils

PERFORMANCE DATA

Compressive Strength (ASTM C-579)	30,000 psi
Tensile Strength (ASTM D-638)	600 psi
Hardness, Shore D (ASTM D-2240)	35–40
VOC	0.00 lb/gal; 0.00 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	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. This product will amber/yellow with exposure to UV.
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[®] 2515

TECHNICAL DATA SHEET

Concrete & Steel Coating, Flexible Novolac Epoxy

BENEFITS

- 100% solids, zero VOC formulation
- Excellent resistance to petroleum and urea ammonium nitrate (UAN) products
- Easy application — 1:1 mix ratio, sprays in two 16–20 mil coats
- Flexibility beyond conventional tank linings
- High impact resistance

RECOMMENDED USES

- Above ground tanks
- Underground fuel storage tanks
- Tank bottoms
- Rail car linings
- Secondary containment

GENERIC DESCRIPTION

Polysulfide-Modified Novolac Epoxy

STANDARD COLORS

Light Gray, White

Contrasting colors should be used for basecoat and topcoat to ensure complete coverage.

PACKAGING

10-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.*

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 300EX or PolySpec TITE M-50 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. Prepare and apply a 16–20 mil coat of FNEC 2515 according to one of the methods outlined below:
 - a. **Plural Component Heated Spray Equipment** (recommended)
Plural component heated spray equipment must be capable of heating both FNEC 2515 components to 90–100°F (to improve atomization properties).
 - b. **Batch Mixing for Roller, Squeegee, Brush**
Pour Component B Hardener into Component A Resin pail. Mix well for 2–3 minutes using a mechanical jiffy-type mixer operated at low speed until a consistent color is attained. Scrape container sides to ensure a proper blend.
Apply by roller, squeegee or brush.
NOTE: Work very quickly due to the product's short pot life.
4. Minimum recoat time is 16–24 hours; maximum recoat time is 72 hours at normal temperatures. If coating exceeds this time period, contact PolySpec for assistance.
5. 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.

1R:1H / DOC FNEC2515-TDS

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