

**CE-224**

**09/13 Supersedes 01/99**

# **TUFCHEM<sup>®</sup> SPRAYABLE EPOXY**

## **DESCRIPTION**

TUFCHEM Sprayable Epoxy is a three component, 100% solids, epoxy topping compound that is spray-applied by peristaltic type spray equipment to properly prepared substrates. The finished surface is chemical-resistant, within its limitations, and skid-resistant. TUFCHEM Sprayable Epoxy may be installed without a primer, although potential for pinholes in the lining from concrete out-gassing is minimized when a primer is used. **Consult Corrosion Engineering specification [CES-328](#) for complete usage/installation details.**

## **AREAS OF USE**

TUFCHEM Sprayable Epoxy protects concrete walls, floors and overhead surfaces in the following industries - chemical, metallurgical, metal finishing, waste treatment, power generation, pulp and paper, and textile dye stuffs.

TUFCHEM Sprayable Epoxy may be used to protect concrete secondary containment areas. The 'as sprayed' finish is slip resistant.

TUFCHEM Sprayable Epoxy is particularly suited to applications where there are many changes in direction and orientation, such as areas containing many pump pads and vertical surfaces to line along with flooring areas.

## **OUTSTANDING FEATURES**

- TUFCHEM Sprayable Epoxy provides a quick to install economical slip resistant lining that offers broad chemical resistance to acids and caustics,
- Sprayable application eliminates troweling, and yields faster application.
- Quick cure time for fast turn-around situations.
- Suitable for horizontal, vertical, and overhead surfaces.

**TYPICAL PHYSICAL PROPERTIES**

PROPERTY	TUFCEM SPRAYABLE EPOXY
Density	131 lbs./cu. ft.
Tensile Strength (ASTM C 307) 7 days@70°F	3,000 psi
Compressive Strength (ASTM C 579) 7 days@70°F	15,500 psi
Adhesion to Concrete (ASTM C 321)	greater than the strength of concrete
Water Absorption (ASTM C 413)	0.12%
Coefficient of Expansion (ASTM C 531)	27 x 10 <sup>-6</sup> in./in./°F
Shrinkage (ASTM C 531) 14 days	0.16%
Flexural Strength (ASTM C 580) 7 days@70°F	7,000 psi
Modulus of Elasticity.(ASTM C 580).7 days@70°F	1.72 x 10 <sup>6</sup> psi
Working Time / Setting Time	90 minutes@70°F / 18 hours@70°F
Color	Gray
Mixing Ratio (By Weight)	1.0: 0.17: 5.4 (Resin: Hardener: Filler)

**ESTIMATING/PACKAGING THEORETICAL QUANTITIES – NO OVERAGE ALLOWANCE**

PRODUCT	CODE	PACKAGING	COVERAGE
PT Epoxy Primer	19676	4 X 1 gal units/case	640 sf/case @ 10 mils WFT
TUFCEM Epoxy Resin	19704	47 lb (5 gal) pail resin	1 x 307 lb unit consists of 1 x 47 lb resin, 1 x 7.8 lb hardener, and 6 x 42 lb bags filler, and will cover 225 sf/unit @ 1/8" thickness
TUFCEM Hardener	19705	7.8 lb (1 gal) can hardener	
TUFCEM Spray Epoxy Filler	19706	42 lb bag filler	

**SAFETY PRECAUTIONS / DISCLAIMER**

Mixes and applications of this product present a number of hazards. Read and follow the hazard information, precautions and first aid directions on the individual product labels and [material safety data sheets](#) before using. While all statements, technical information, and recommendations contained herein are based on information our company believes to be reliable, nothing contained herein shall constitute any warranty, express or implied, with respect to the products and/or services described herein and any such warranties are expressly disclaimed. We recommend that the prospective purchaser or user independently determine the suitability of our product(s) for their intended use. No statement, information or recommendation with respect to our products, whether contained herein or otherwise communicated, shall be legally binding upon us unless expressly set forth in a written agreement between us and the purchaser/user.



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