

# CE-370 Page 1 of 2 Tufchem<sup>™</sup> XF Grout

### **SELECTION & SPECIFICATION DATA**

Туре	Structural epoxy grout		Reference Specifications	CES-360 Installation of ErgonArmor Resinous Polymer Concretes	
Description	Tufchem XF Grout is a versatile structural epoxy grout designed with low shrinkage, low exotherm, and high flow for grouting and casting applications. It may be placed 3/4 inches (20 mm) to 12 inches (300 mm) deep per lift.		Installation Conditions	handling at 70°F 50°F (10°C), consu substrate should temperature prio temperature shou	t is formulated for ideal (21°C). For temperatures below ult ErgonArmor. Materials and be acclimated to the air r to installation, and the air uld be between 50°F (10°C) and
Uses	Restoring and protecting Portland cement concrete structures such as: Beams Columns				g installation and cure. e clean, dry, and neutral pH.
	Bases Floors Foundations Footings	Pads Piers Piles Pedestals	Ratio		in: 0.17 hardener: 7.7 filler or sin and hardener: 6.6 parts filler
	<ul> <li>Grouting base plat reciprocating mac</li> <li>Ball mills</li> <li>Blowers</li> <li>Centrifuges</li> <li>Crushers</li> <li>Compressors</li> </ul>		Mixing	hardener can be a resin pail. For larg the resin into a m mixing the resin, the resin then con Transfer the catal paddle mixer the	<sup>96</sup> m <sup>3</sup> ) EZ Mix unit, the part B added directly to the part A ger and smaller units, transfer ixing container. While power slowly empty the hardener into ntinue mixing for 2 minutes. yzed resin into a clean, dry n slowly add filler while mixing. until filler is thoroughly wetted.
Features	<ul> <li>EZ Mix resin packaging enables efficient resin and hardener mixing for a 2.2 ft<sup>3</sup> (0.06 m<sup>3</sup>) kit.</li> <li>Low exotherm allows deep pours up to 12 inches (300 mm) without overheating.</li> <li>Excellent flow characteristics with full filler loading.</li> <li>Excellent vibration resistance.</li> <li>Good resistance to a broad range of chemicals and oils.</li> <li>High physical strength.</li> <li>Good bond to concrete and metal surfaces.</li> <li>Rapid strength gain.</li> </ul>		Work Life	2 hours at 70°F (21°C) Work life is shorter at higher temperatures. A larger volume of mixed material will have a shorter work life than a smaller volume.	
			Cleanup	Xylene or MEK	
			<u>CURE TIME</u>		
Limitations	Requires use of formwork for vertical applications.		Temperature	Initial Set	Full Cure
Linitations			70°F (21°C)	8 hours	5 days
			<u>SAFETY</u>		
			Safety	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 safety data sheets before using.	
			Ventilation	Provide thorough air circulation during and after application until the material has cured when used in enclosed areas.	

**INSTALLATION GUIDANCE** 



## CE-370 Page 2 of 2 Tufchem<sup>™</sup> XF Grout

### **PACKAGING, ESTIMATING & HANDLING**

Product	Code	Packaging
Tufchem Epoxy Resin Gray	21928 29436 19704	4 x 7.8 lb (3.5 kg) can case 32.5 lb (14.7 kg) EZ Mix pail 47.0 lb (21.3 kg) pail
Tufchem Epoxy Resin Blue	29437 29657	32.5 lb (14.7 kg) EZ Mix pail 47.0 lb (21.3 kg) pail
Tufchem Epoxy Resin Red	23861 29441 29656	4 x 7.8 lb (3.5 kg) can case 32.5 lb (14.7 kg) EZ Mix pail 47.0 lb (21.3 kg) pail
Tufchem Epoxy Hardener	21929 29438 19705 29554	4 x 1.3 lb (0.59 kg) can case 5.5 lb (2.5 kg) EZ Mix can 7.8 lb (3.5 kg) can 23.4 lb (10.6 kg) can
XF Grout Filler	19600	50 lb (22.7 kg) bag

A 2.09 cubic foot (276 lb) unit consists of 1 case of 4 x 7.8 lb cans resin, 1 case of 4 x 1.3 lb cans hardener and 240 lbs filler.

A 3.14 cubic foot (415 lb) unit consists of 1 x 47.0 lb pail resin, 1 x 7.8 lb can hardener, and 360 lbs filler.

A 2.2 cubic foot (288 lb) EZ Mix unit consists of 1 x 32.5 lb pail resin, 1 x 5.5 lb can hardener and 5 x 50-lb bags filler.

Theoretical<br/>CoverageAllow 132 mixed lb/ft³ (2,114 kg/m³) of volume.<br/>Allow 16.5 mixed lb/ft² (80 kg/m²) when casting<br/>as a 1.5-inch (38 mm) overlay and 11.0 mixed<br/>lb/ft² (54 kg/m²) as a 1.0-inch (25 mm) overlay.Storage &<br/>Shelf LifeMaintain products in original packaging and<br/>sealed until ready for use. Estimated shelf life for

the resin and hardener is 12 months when stored in a dry area at 70°F (21°C). Fillers do not degrade with age when stored in a dry area and packaging is intact. Actual shelf life may vary with storage conditions.

If there is any question with respect to the quality of the components, check reactivity prior to use. For assistance, consult with ErgonArmor.

#### **TYPICAL PHYSICAL PROPERTIES**

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Property	Typical Value
Color	Gray, blue, or red
Density, ASTM C138	132 lb/ft³ (2,114 kg/m³)
Compressive strength, ASTM C579 18 Hours 24 Hours 30 Hours 48 Hours 5 Days	6,300 psi (44 MPa) 8,250 psi (57 MPa) 10,400 psi (72 MPa) 12,600 psi (87 MPa) >15,500 psi (107 MPa)
Tensile strength, ASTM C190	>1,500 psi (10.3 MPa)
Creep, ASTM C1181, 14 Days 3.4 MPa (493 psi) 73°F (23°C)	2.0 x 10 <sup>-3</sup>
Flow time, ASTM C1339 Back of box Full contact	<3 minutes <3 minutes
Bearing area, ASTM C1339	Passes
Coefficient of thermal expansion, 75°F- 210°F, ASTM C531	22 x 10 <sup>-6</sup> /°F (39.6 x 10 <sup>-6</sup> /°C)
Shrinkage, ASTM C531	0.14%
Absorption, ASTM C413	0.33%
Minimum application thickness	0.75 inches (20 mm)

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