

Tufchem™ Sprayable Epoxy

SELECTION & SPECIFICATION DATA

Type	Epoxy lining
Description	Tufchem Sprayable Epoxy is a nominal 1/8" (3 mm) thick epoxy lining system for high corrosion applications. It is applied with specialty peristaltic pump equipment by contractors familiar with the use of such equipment to achieve a textured nonslip finish.
Uses	<ul style="list-style-type: none"> • Resistant to most acids, alkalis and aliphatic solvents. • Suitable for wastewater collection and treatment containment areas • Basins, manholes, junction boxes • Secondary containment • Floors, walls, curbs, ceilings
Features	<ul style="list-style-type: none"> • Spray application for fast installation • High film build in one pass • 100% reactive, no VOCs • Textured anti-slip as-sprayed finish
Limitations	Not for use beyond its chemical resistance capabilities. Consult ErgonArmor with specific questions.

INSTALLATION GUIDANCE

Reference Specification	CES-328 Installation Specification for Tufchem Sprayable Epoxy
Installation Conditions	Materials and substrate should be acclimated to an air temperature of between 50°F (10°C) and 90°F (32°C) during installation and cure.
Mixing/Use	Mix ratio Filler:Resin:Hardener is 5.4:1.0:0.17 by weight. Empty Part A resin and Part B hardener into a clean mixing vessel and mix thoroughly using a slow speed drill with suitable blade mixer such as a Jiffler. Mix for 2 minutes minimum to insure full blending. Slowly add Part C Filler until fully wetted out. Prepare peristaltic pump by lubricating hoses with uncatalyzed resin. Resin can be recovered and reused. Once hoses are wetted out, pour mixed contents into hopper of peristaltic pump and commence spraying.
Work Life	45-60 minutes at 70°F (21°C)
Cleanup	Xylene

CURE TIME

Temperature	Initial Set	Full Cure
70°F (21°C)	8-12 hours	48 hours

SAFETY

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.

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PACKAGING & ESTIMATING

Product	Code	Packaging
Tufchem Epoxy Resin Gray	19704	47 lb/21.3 kg pail
Tufchem Epoxy Hardener	19705	7.8 lb/3.5 kg can
Sprayable Epoxy Filler	19706	42 lb (19 kg) bag
Theoretical Coverage	A 307 lb/2.34 cu ft (139 kg/66.3 l) unit consists of 1 pail of resin, 1 can of hardener and 6 bags of filler and will cover 225 sf (20.9 sm) at 1/8" (3 mm) thickness.	
Storage & Shelf Life	<p>Maintain products in original packaging and sealed until ready for use. Estimated shelf life of components is 18-24 months when stored in a dry area at 70°F (21°C). Actual shelf life may vary with storage conditions.</p> <p>If there is any question with respect to the quality of the components check reactivity prior to use. For assistance consult with ErgonArmor.</p>	

TYPICAL PHYSICAL PROPERTIES

Property	Typical Value
Color	Gray
Wet density	131 lb/ft ³ (2,098 kg/m ³)
Compressive strength, 7-day, ASTM C579	>10,000 psi (68.9 MPa)
Tensile strength, 7-day, ASTM C307	>2,500 psi (17.2 MPa)
Flexural strength, ASTM C580	>5,000 psi (34.4 MPa)
Bond to concrete, ASTM C321	Exceeds tensile strength of concrete
Water absorption, ASTM C413	0.12%
Shrinkage, ASTM C531	0.16%
Service temperature range, chemical dependent	160°F (71°C)

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