



# Tufchem™ Sprayable Epoxy

## SELECTION & SPECIFICATION DATA

<b>Type</b>	Epoxy lining
<b>Description</b>	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.
<b>Uses</b>	<ul style="list-style-type: none"><li>• Resistant to most acids, alkalis and aliphatic solvents.</li><li>• Suitable for wastewater collection and treatment containment areas</li><li>• Basins, manholes, junction boxes</li><li>• Secondary containment</li><li>• Floors, walls, curbs, ceilings</li></ul>
<b>Features</b>	<ul style="list-style-type: none"><li>• Spray application for fast installation</li><li>• High film build in one pass</li><li>• 100% reactive, no VOCs</li><li>• Textured anti-slip as-sprayed finish</li></ul>
<b>Limitations</b>	Not for use beyond its chemical resistance capabilities. Consult Armor with specific questions.

## INSTALLATION GUIDANCE

<b>Reference Specification</b>	CES-328 Installation Specification for Tufchem Sprayable Epoxy
<b>Installation Conditions</b>	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.
<b>Mixing/Use</b>	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.
<b>Work Life</b>	45-60 minutes at 70°F (21°C)
<b>Cleanup</b>	Xylene

## CURE TIME

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

## SAFETY

<b>Safety</b>	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.
<b>Ventilation</b>	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
<b>Theoretical Coverage</b>	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.	
<b>Storage &amp; Shelf Life</b>	<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 Armor.</p>	

## TYPICAL PHYSICAL PROPERTIES

Property	Typical Value
Color	Gray
Wet density	131 lb/ft <sup>3</sup> (2,098 kg/m <sup>3</sup> )
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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