

1151 Transport Drive Valparaiso, IN 46383 Toll Free 888.323.4445 • P 219.465.7671 elitecrete.com

TD.475 - TECHNICAL DATA: MERCAP-445™ Crack Treatment & Injection Epoxy

Revised: 3/16/2023 Version: 1.4

Product Class: A two-component epoxy crack fill and treatment

Description:

MERCAP-445™ is a 100% solids, low viscosity, structural epoxy adhesive designed for treating cracks in concrete. MERCAP-445™ is a high moisture tolerant anchor adhesive.

Uses:

- Gravity filling horizontal cracks in dry or damp concrete
- Structural anchor bolt adhesive for horizontal applications
- · General purpose adhesive for bonding dissimilar materials

Features:

- -Adhesive for many types of substrates
- -USDA, FDA, and CFIA compliant
- -Bonds to dry or damp concrete
- Low viscosity
- -2 to 1 ratio by volume

Physical Properties			
<u>Property</u>	Test Standard	<u>Result</u>	
Pot Life	ASTM C881	14 minutes	
Colors (mixed)		Clear amber	
Consistency		Flowable	
Compressive strength	ASTM D695	13,500 psi	
Bond strength	ASTM C882	325 psi 5 hours	
		550 psi 7 hours	
		2,100 psi 7 days	
Water absorption	ASTM D570	0.04%	
Heat deflection temperature	ASTM D648	121°F / 50°C	
Elongation @ break	ASTM D638	3.75%	
Viscosity:			
Part A Resin		600 cps	
Part B Hardener		250 cps	
Mixed		375 cps	

<u>Coverages</u>				
Crack	width x	depth (inches)	<u>L</u> inear ft/gal	
1/8"	Χ	1"	154	
1/4"	Χ	1"	77	
1/2"	Χ	1"	38.5	
3/4"	Χ	1"	25.7	
1"	Χ	1"	19.3	

Application:

- Prepare the crack by cutting open using chasing or tuckpoint blade creating reservoir to control the epoxy.
- Pour mixed epoxy in the reservoir and refill as needed until no more is accepted into crack.
- · When crack is filled, pour silica sand into reservoir.
- Allow to cure before grinding smooth and/or placing subsequent top coats or overlays.

NOTE: If epoxy adhesive is running through the bottom of the crack, add epoxy thickener to mix, tuck point into crack, and allow to cure.

Available Packaging:

900 ml cartridge and 1.5 gal kit

Suggested Storage:

- Store in a temperature and weather-controlled area between 65° F / 18° C and 85° F / 29° C.
- Do not allow to freeze.
- · Shelf Life: 1 year in original unopened containers.