TD.555 – TECHNICAL DATA: E100-RT1[™] Cold Temp Epoxy

Revised: 3/16/2023 Version: 1.4

Product Description:

E100-RT1[™] is a 100% solids, clear amber, low viscosity epoxy for use as neat, broadcast, slurry, or mortar applications. It is designed for use in cold environments as low as 34°F / 1°C in above grade and below grade environments. E100-RT1[™] can attain high strengths in as little as four hours.

Uses:

- Cold room flooring (neat, slurry, broadcast and mortar)
- Gravity filling of horizontal cracks in dry or slightly damp concrete
- Structural adhesive for horizontal applications

Features:

- Can pigment with Elite Crete Systems E100-Series epoxy pigment

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- Extremely fast setting (7 minutes @ 73°F / 23°C)
- Low viscosity
- Cures down to 34°F / 1°C
- Bonds to slightly damp or dry concrete (no frozen water)

<u>Physical Properties</u> (@73° F / 23° C, 50% R.H. 7-day ambient cure)			
Property	Test Standard	<u>Result</u>	
Gel time: 73°F / 23°C	ASTM C881	7-8 minutes	
Compressive strength	ASTM D695	13,500 psi	
Compressive modulus	ASTM D695	435,000 psi	
Bond strength (dry)	ASTM C882	400 psi 3 hours	
Bond strength (wet)		450 psi 5 hours	
Dry and wet		500+ psi 1 day	
Water absorption	ASTM D570	0.04%	
Heat deflection temperature	ASTM D648	145°F / 63°C	
Elongation@break	ASTM D638	2.6 %	
Flexural strength (psi)	ASTM D790	652	
Tensile strength (psi)	ASTM D638	9630	
Shore D hardness	ASTM D2240	85	

Mix Ratio: 2 to 1 by volume

Cure Schedule:

• Varies greatly depending on temperature and thickness applied = 35 minutes to 5 hours

This epoxy coating system is not intended for direct food contact.

 This epoxy curing agent will not comply with the U.S. Food, Drugs, and Cosmetics Act as amended under Food Additive Regulation 21 CFR 175.300.

Available Packaging:

3 gal kits

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.

The information herein is general information to assist our customers in determining whether our products are suitable for their specific applications. Our products are intended for sale to commercial and industrial customers. We require that customers should inspect and test our products before use to satisfy themselves as to the contert and suitability for the applications they intend b use our products for. Nothing herein shall constitute any warranty expressed or implied, including any warranty of merchantability on fitness for a particular purpose, nor is any protection from any law repart to be inferred. The exclusive remedy for all proven claims is replacement of our materials and in oneventabal we be liable for incidental or consequential damages.