

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
- 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)

Physical Properties

(@73° F / 23° C, 50% R.H. 7-day ambient cure)

Property	Test Standard	Result
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.