

EASTERN RESINS

ER-1100

DESCRIPTION:

ER-1100 is a 100% solids, high build epoxy coating system designed for coating concrete surfaces subjected to constant immersion in water. ER-1100 will bond to water saturated, surface dry concrete (SSD), and is resistant to sewer gasses, sulfur based chemicals, dilute acids and most caustics.

TYPICAL USES:

Marine environments
Sewers, tunnels, dams, spillways
Underground concrete structures

FEATURES:

Excellent chemical resistance
Convenient 2 to 1 ratio by volume
Superior adhesion to cold damp concrete

VISCOSITY: (@72°F)

Part A: 1300 cps
Part B: 800 cps
Mixed: 900 cps

MIX RATIO BY VOLUME:

2 parts A to 1 part B (by volume)

COLORS:

9 standard colors

CURE SCHEDULE:

Pot life @ 75°F: 18 min.
Tack free: 7 hours
Recoat: 6 to 24 hours

APPLICATION:

Apply ER-1100 By brush, roller or airless spray. Unlike other wall coating systems that require 60-80 mils to function properly, ER-1100 only requires two 8 mil coats when spray applying and three 8 mil coats when applying by brush or roller.

PHYSICAL PROPERTIES:

Compressive Strength	ASTM D 695	9,500 psi
Tensile Strength	ASTM D 638	3,200 psi
Elongation at Break	ASTM D 638	25%
Abrasion Resistance		
CS-17 Wheel, 1 kg load	ASTM D4060	0.20 gm loss
Water Absorption (2 hour Boil)	ASTM D570	0.16%
Flexural Strength	ASTM D790	6,600 psi
Shore D Hardness	ASTM D2240	89
Heat Distortion Temperature	ASTM D648	125°F
Bond Strength to : Concrete (wet or dry)		100% concrete failure

CHEMICAL RESISTANCE:

REAGENT	RATING	REAGENT	RATING
ACIDS		ALKALIES	
Citric all	no effect	Ammonium Hydroxide 1-10%	no effect
Hydrochloric 1-10%	no effect	Calcium Chloride all	no effect
Lactic 1-10%	no effect	Caustic Soda	no effect
Nitric 1-5%	no effect	Caustic Potash	no effect
Oxalic 1-10%	no effect	Sodium Hydroxide all	no effect
Phosphoric 1-20%	no effect	Sodium Hypochlorite 1-6%	no effect
Sulfuric 1-10%	no effect	Sodium Sulfide 1-30%	no effect
MISCELLANEOUS			
	Water (potable, salt)		no effect
	Sewer Gasses		no effect

Grease, oils

no effect