



ECS-100 SERIES TWO-COMPONENT BRIDGE & PARKING DECK PENETRATING SEALER

ECS-100 is a two-component 100% solids epoxy designed as a very low viscosity, high strength sealer for hairline cracks in concrete substrates.

ECS-100 can be used for restoration of older concrete pavement decks; repair of new concrete decks with curing cracks; concrete crack repair without injection equipment; protection of deck rebar from corrosion.

TECHNICAL DATA

PROPERTY	TEST METHOD	SPECIFICATIONS
Percent Solids	ASTM D1353	100%
Pot Life 150g mass @ 77°F	ASTM D711?	25 minutes min
Track Free Time @ 77 °F	ASTM D1640	5-8 hours
Initial Cure Time @ 77 °F	ASTM D 1640	4 hours Max
Full Cure Time		7 days
Adhesion To Concrete	ASTM D4541	100% concrete failure
Compressive Strength	DMS-6100	>9000PSI
Concrete Wet Bond Strength	DMS-6100	>350 PSI
Viscosity (3 part A to 1 part B)		100 Centipoises max

ADVANTAGES

- ▶ 100% solids, 3:1 by volume mix ratio
- ▶ Very Low viscosity for smooth application
- ▶ Rapid set at a wide range of temperatures
- ▶ Outstanding corrosion resistance
- ▶ Exceptional adhesion to a variety of substrates
- ▶ Protection against moisture penetration
- ▶ Good flexibility
- ▶ Extremely Durable bonds
- ▶ High Strength
- ▶ Premeasured packaging of components
- ▶ Minimal shrinkage upon cure
- ▶ Substantial cost savings over new concrete

Part A: ECS-100
Part B: ECS-105

PACKAGING

1 and 4 gallon units
Also available in drums and totes

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INSTALLATION & SURFACE PREPARATION

PLACEMENT

All technical data regarding material type and application rate will be provided by a Swarco Colorado Paint Company representative to the project engineer prior to starting work. All procedures must be followed exactly per manufacturer's instructions.

SURFACE PREPARATION

To assure maximum adhesion and properties, the surface shall be dry and clean. Surface preparation shall include, but not be limited to, cleaning and removal of sealing and curing compounds. The surface shall be cleaned to be free of grease, oil, dirt, grass, loose gravel, loose or flaking paint, and other contaminants.

This is best achieved by shot-blasting, sand blasting and/or water blasting. A minimum period of at least 24 hours after water blasting or precipitation must be observed before applying the crack sealer. Surface and cracks must be dry before treatment is applied.

FINAL SURFACE PREPARATION

Upon completion of the surface preparation, the pavement surface shall first be power brushed and vacuumed. An additional compressed air operation shall be used to remove residue and debris resulting from the cleaning work.

APPLICATION

Mix 3 parts by volume of Part A Resin with 1 part of Part B Cure as packaged by Colorado Paint. A mechanical agitator should be used, such as an electric drill with a mixing paddle attached. After mixing thoroughly for at least two minutes, the epoxy may then be applied immediately by pouring onto the surface area approx. 75-150 ft²/gal. The mixed epoxy should be allowed to pool over the visible cracks, and then spread progressively thinner over the entire surface to be sealed with a squeegee or stiff bristle push broom. Soon after applying the epoxy to the substrate (15-20

minutes depending upon ambient temperature), mechanically broadcast kiln dried, medium coarse sand evenly onto the wet epoxy surface at a rate of approx. 2-3 lb. /yd². Do not remove aggregate or open to traffic until the treated surface is tack-free. This is to promote an anti-skid surface. It is imperative to apply this sand into the epoxy film before it cures, or the sand will not adhere to the epoxy and a dangerously slick road surface could result. The final cured surface appearance should be dull and not glossy. Application of the epoxy should be restricted to an ambient and surface temperature range of 50° F - 85°F range. Epoxy pot life decreases significantly as temperature increases. Therefore, working times for mixed epoxy are significantly shortened at elevated temperatures.

STORAGE

Store in a dark, dry, and cool place. Protect from freezing. The shelf life when stored appropriately in the original sealed container is two years from the date of manufacture.

SAFETY

Before working with this product, the user is required to read and understand the information provided in the Safety Data Sheets and to follow the safety precautions and good industrial hygiene practices. Designed for the use by trained professional personnel only.

WARRANTY

Colorado Paint warrants to the purchaser, for 6 months from the date of manufacturing, that this product when applied according to Colorado Paint application instructions, shall be manufactured without defects. This limited warranty covers material replacement only. Excluded from coverage is labor, any damage to the application surface or any failure of the coating caused other than by defects in the material.

Revision date 10072016