



EUCOREPAIR CP

FLOWABLE REPAIR MORTAR FOR CATHODIC PROTECTION DEVICES **EUCLID CHEMICAL**

DESCRIPTION

EucoRepair CP is a flowable mortar, suitable for pumping or pouring into formed areas to repair concrete substrates. Formulated with a very low volumetric resistivity to be compatible with cathodic protection devices used to protect the steel within concrete structures.

PRIMARY APPLICATIONS

- Galvanic jackets used to protect marine piles and other structural components
- Parking structures
- Bridge repairs
- Balconies

FEATURES / BENEFITS

- Appropriate permeability, volumetric resistivity in range for use with galvanic jacket anodes
- Extended placement time for difficult to reach areas
- Can be hand applied or mechanically pumped
- Does not contain microsilica, fly ash, slag or chlorides
- Contains an anti-washout agent
- Excellent freeze/thaw durability

TECHNICAL INFORMATION

Typical Engineering Data

The following results were developed under laboratory conditions @ 23°C:

PROPERTY	VALUES
Compressive Strength ASTM C 109	1 day 21.4 MPa 3 days 35.2 MPa 7 days 49.0 MPa 28 days 58.6 MPa
Slant Shear Bond Strength FM 5-587	7 days 20.7 MPa 28 days 22.8 MPa
Tensile Strength ASTM C 307	7 days 2.2 MPa 28 days 2.8 MPa
Flexural Strength ASTM C 580	7 days 8.3 MPa 28 days 12.4 MPa
Length Change (28 days) ASTM C 157*	Air cure - 0.064% Water cure + 0.000%
Set Time ASTM C 191	Initial set approx. 5 1/2 hr. Final set approx. 6 1/2 hr
Freeze/Thaw Resistance ASTM C 666 Procedure A	>99% after 300 cycles
Volumetric Resistivity (28 days) FM 5-578	8,200 ohm/cm

*Based on initial length @ 24 hours; 3" x 3" x 11" (7.6 cm x 7.6 cm x 27.9 cm) beams

PACKAGING

EucoRepair CP is packaged in 22.7 kg bags

SHELF LIFE

2 years in original, unopened package

SPECIFICATION/COMPLIANCES

EucoRepair CP meets Florida DOT specification 930-7.2.1 for use as a filler in/around cathodic protection devices.

COVERAGE

11L per 22.7kg bag

A unit of EucoRepair CP may be extended with 22.7 kg of 9.5 mm pea gravel which will yield 0.021 m³.

NOTE: This extension may alter certain engineering properties.

DIRECTIONS FOR USE

Surface Preparation: Concrete surfaces must be structurally sound, free of loose or deteriorated concrete and free of dust, dirt, paint, efflorescence, oil and all other contaminants. Mechanically abrade the surface to achieve a surface profile equal to CSP 6 - 8 in accordance with ICRI Guideline 310.2. Properly clean profiled area. **Priming:** Clean and prime exposed steel using a spray or brush coat of DURALPREP A.C.. The primer coat of DURALPREP A.C. must be allowed to thoroughly dry prior to the application of the repair mortar. Alternately, a Saturated Surface Dry (SSD) concrete surface can be primed with a scrub coat of EucoRepair CP. The repair must be made before the scrub coat dries out.

Mixing: Single bags may be mixed with a drill and “jiffy” mixer. Use a horizontal shaft mortar mixer for multiple bag batches. All materials should be in the proper temperature range of 15 - 32°C. Add appropriate amount of water, 2.84 to 3.18 L into a clean mixing vessel, then add the dry product. Mix for 3 minutes. If placement is over 75 mm thick, add 22.7 kg of SSD pea gravel and mix an additional 1-2 minutes until mixture is homogeneous. The mixed product should be transported to the repair area and placed immediately. Place material in a continuous pour to avoid cold joints.

Placement: Discharge material from mixer and place by pouring or pumping into form. Place in 3 to 75 mm lifts or up to 250 mm when extended with pea gravel. **NOTE:** Contact technical support for placements greater than 250 mm.

Curing and Sealing: To prevent surface cracking, cure EucoRepair CP with an appropriate curing compound conforming to ASTM C-309 or an appropriate curing and sealing compound conforming to ASTM C-1315. If a curing compound is not desired, wet cure for a minimum of three days.

CLEAN UP

Clean tools and equipment with water before the material hardens.

PRECAUTIONS & LIMITATIONS

- Not designed to be an expansive or non-shrink form and pour.
- Do not use material at temperatures below 7°C.
- Keep repair from freezing until a minimum strength of 6.9 MPa is reached.
- In all cases, consult the product’s Safety Data Sheet before use.

Rev: 20/03/17