

CATHODIC PROTECTION

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EUCOREPAIR CP

FLOWABLE REPAIR MORTAR FOR CATHODIC PROTECTION DEVICES



EUCLID CHEMICAL

PACKAGING

50 lb (22.7 kg) bag
Code: 160CP 50

APPROXIMATE YIELD

50 lb (22.7 kg) unit: 0.40 ft³ (0.011 m³)
per unit when mixed with 0.74 to 0.84
gallons (2.84 to 3.18 L) of potable water.
Extended*: 0.74 ft³ (0.019 m³) per unit
*See full extending instructions under
"Directions for Use".

MINIMUM/MAXIMUM APPLICATION THICKNESS

Neat: 1/8 to 5 inches (0.3 to 12.7 cm)
Extended: 1 to 10 inches (2.5 to 25 cm)

CLEAN UP

Clean tools and equipment with water
before the material hardens.

SHELF LIFE

2 years in original, unopened package

SPECIFICATIONS AND COMPLIANCES

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

DESCRIPTION

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

PRODUCT CHARACTERISTICS

FEATURES/BENEFITS

- Appropriate permeability, resistivity in range for use with galvanic jackets
- Extended placement time for difficult to reach areas
- Can be hand applied or mechanically pumped
- Does not contain microsilica, fly ash, slag or substances corrosive to metals
- Contains an anti-washout agent

PRIMARY APPLICATIONS

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

TECHNICAL INFORMATION

The following are typical values obtained under laboratory conditions. Expect reasonable variation under field conditions.

Test Method	Test Property	Values
ASTM C109	Compressive Strength	1 day 3,100 psi (21.4 MPa) 3 days 5,100 psi (35.2 MPa) 7 days 7,100 psi (49.0 MPa) 28 days 8,500 psi (58.6 MPa)
FM 5-587	Slant Shear Bond Strength	7 days 3,000 psi (20.7 MPa) 28 days 3,300 psi (22.8 MPa)
ASTM C307	Tensile Strength	7 day 320 psi (2.2 MPa) 28 days 400 psi (2.8 MPa)
ASTM C580	Flexural Strength	7 day 1,200 psi (8.3 MPa) 28 days 1,800 psi (12.4 MPa)
ASTM C157*	Length Change	28 day air cure - 0.064% 28 day water cure + 0.000%
ASTM C191	Set Time	Initial approximately 5.5 hours Final. approximately 6.5 hours
FM 5-578/ AASHTO 358-17	Volumetric Resistivity	8,200 ohm-cm

*Based on 50% RH @ 23 °C (73 °F) (3" x 3" x 11" beam specimens were removed from molds @ 24 hours)

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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 & Bonding (Saw Cut & Chipped Out Repairs, Form & Pour Repairs): Thoroughly clean any exposed reinforcing steel, and apply DURALPREP A.C. to the concrete and the reinforcing steel within the repair area. Refer to the DURALPREP A.C. technical data sheet for full instructions. Alternatively, application of EUCOWELD 2.0 to a dry substrate or a scrub coat of EUCOREPAIR CP to the saturated surface dry (SSD) concrete surface may be used for bonding. The repair material must be placed on the scrub coat 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 60 to 90 °F (15 to 32 °C). Add appropriate amount of water, 0.74 to 0.84 gallons (2.84 to 3.18 L) into a clean mixing vessel, then add the dry product. Mix for 3 minutes. If placement is over 5" (127 mm) thick, add 50 lb. (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 (pile jackets): Discharge material from mixer and place by pouring or pumping into form. EUCOREPAIR CP may be placed in annular spaces from 1/8" to 5" (3 to 127 mm) thick, or up to 10" (250 mm) thick when extended with pea gravel. EUCOREPAIR CP may be poured the full height of the pile jacket form in one placement. NOTE: Contact technical support for placements greater than 10" (250 mm).

Placement (horizontal patching): Discharge material from mixer and place by pouring or pumping into form. Place in 1/8" to 5" (3 to 127 mm) thick lifts, or up to 10" (250 mm) thick lifts when extended with pea gravel. NOTE: Contact technical support for placements greater than 10" (250 mm).

Curing and Sealing: To prevent surface cracking in horizontal patching applications, cure EUCOREPAIR CP with an appropriate curing compound conforming to ASTM C309 or an appropriate curing and sealing compound conforming to ASTM C1315. If a curing compound is not desired, wet cure for a minimum of three days.

PRECAUTIONS/LIMITATIONS

- EUCOREPAIR CP is not a non-shrink grout.
- When necessary, follow the recommendations in ACI 305R "Guide to Hot Weather Concreting" or ACI 306R "Guide to Cold Weather Concreting".
- In all cases, consult the product's Safety Data Sheet before use.

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