



EUCLID CHEMICAL

EUCOPATCH

SINGLE-COMPONENT, RAPID-SETTING REPAIR MATERIAL

DESCRIPTION

EUCOPATCH is a single-component, rapid-setting, repair mortar for use on new and existing concrete and masonry surfaces. This product is designed for the reconstruction of damaged vertical and overhead concrete and masonry structures, both interior and exterior. EUCOPATCH can also be used in light-duty, pedestrian, horizontal applications. The light color of EUCOPATCH closely resembles aged, sun-bleached concrete.

PRIMARY APPLICATIONS

- Walls
- Curbs and gutters
- Precast panels
- Columns
- Overhead patching
- Masonry units

FEATURES/BENEFITS

- Rapid-setting for repairs up to 4" (10 cm)
- High compressive strength
- Excellent resistance to freeze-thaw cycles and de-icing salts
- Suitable for both interior and exterior applications
- Light gray color blends well with aged concrete
- Compatible with galvanic anodes

TECHNICAL INFORMATION

The following results were developed under laboratory conditions using 0.7 gal water/50 lb bag (2.65 L/22.7 kg). Expect reasonable variation under field conditions.

Set Times 70°F (21°C) ASTM C266

Initial set 8 min
Final set 20 min

Compressive Strength ASTM C109 2" (50 mm) cubes

Age	Strength
1 day.....	2,000 psi (14 MPa)
7 days.....	4,500 psi (31 MPa)
28 days.....	5,500 psi (38 MPa)
56 days.....	6,500 psi (45 MPa)

Appearance: EUCOPATCH is a free-flowing powder designed to be mixed with water. After mixing and placing, the color may initially appear darker than the surrounding concrete. This color will lighten up substantially as the EUCOPATCH cures, resulting in the repair area very closely matching the surrounding concrete.

PACKAGING/YIELD

EUCOPATCH is packaged in 50 lb (22.7 kg) bags which yield 0.44 ft³ (0.013m³) when mixed with 0.7 to 0.75 gal (2.65 to 2.81L) of water. EUCOPATCH is also available in 60 lb (27.2 kg) pails which yield 0.56 ft³ (0.016 m³) when mixed with 0.84 to 0.90 gal (3.2 to 3.4 L) of water.

SHELF LIFE

2 years in original, unopened package

COVERAGE

One 50 lb (22.7 kg) unit of EUCOPATCH will cover approximately 11.3 ft² (1.05 m²) when placed at an average depth of 1/2" (13 mm). One 60 lb (27.2 kg) unit of EUCOPATCH will cover approximately 13.6 ft² (1.26 m²) when placed at an average depth of 1/2" (13 mm).

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 minimum surface profile of CSP 5 - 7 in accordance with ICRI Guideline 310.2. Properly clean profiled area.

Priming & Bonding (Saw Cut & Chipped Out 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 EUCOPATCH 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.

Priming & Bonding (Vertical & Overhead Skim Coats/Toppings): Apply EUCOWELD 2.0 or a scrub coat of EUCOPATCH to the saturated surface dry (SSD) concrete surface. 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 paddle type mortar mixer for large jobs. All materials should be in the proper temperature range of 60°F to 90°F (16°C to 32°C). Add the appropriate amount of water for the batch size and then add the dry product. The mixed product should be quickly transported to the repair area and placed immediately.

Placement: Place EUCOPATCH onto the prepared concrete or masonry surface at a minimum depth of at least 1/16” (1.6mm). Float or trowel flush with adjacent surface and allow to set. Finish to match the surrounding surfaces. **Place EUCOPATCH while the scrub coat is still wet.**

Finishing: Finish the repair material to the desired texture. Do not add additional water to the surface during the finishing operation. Use EUCOBAR evaporation retarder.

Curing and Sealing: Proper curing procedures are important to ensure the durability and quality of the repair. To prevent surface cracking, cure the material with a high solids curing compound, such as SUPER AQUA-CURE VOX or SUPER REZ-SEAL. Allow the curing compound to dry. In hot, windy or direct sunlight situations, apply a second coat of curing compound. 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

- Only mix as much material that can be used in 10 minutes.
- Do not use for a topping or overlay.
- Do not use material at temperatures below 45°F (7°C).
- When necessary, follow the recommendations in ACI 305R “Guide to Hot Weather Concreting” or ACI 306R “Guide to Cold Weather Concreting”.
- Keep repair from freezing until a minimum strength of 1000 psi (7 MPa) is reached.
- Store product in a dry place.
- In all cases, consult the Safety Data Sheet before use.

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