



# EUCOPATCH P

## BONDING AGENT AND REINFORCEMENT PROTECTION

EUCLID CHEMICAL

### DESCRIPTION

**EUCOPATCH P** is a one-part cementitious bonding agent and anti-corrosion coating for reinforcing steel. It contains silica fume combined with portland cement that can be used as a bonding agent for placing fresh concrete and repair mortars to existing concrete substrates. **EUCOPATCH P** contains a corrosion inhibitor which protects reinforcement when used as an anti-corrosion coating for steel. **EUCOPATCH P** has a long open time, is non-flammable and does not form a water vapour barrier after cure.

### PRIMARY APPLICATIONS

- Bonding agent for fresh concrete to existing concrete
- Concrete repairs with cement mortars
- Anti-corrosion coating for steel reinforcement
- Exterior or interior
- On grade or above grade applications

### FEATURES/BENEFITS

- Long open time
- Contains a corrosion inhibitor
- Ease of application (brush/spray)
- Non-flammable
- Does not form a vapor barrier

### TECHNICAL INFORMATION

Property	Results
<b>Compressive Strength</b> ASTM C 109, MPa	1 day 9.3 7 days 34.0 28 days 46.0
<b>Flexural Strength</b> ASTM C 348, MPa	28 days 5.8
<b>Bond Strength</b> 10 days ASTM C 882, MPa	10 days 2.7
<b>Initial Surface Absorption</b> at 30 days, (ml/m <sup>2</sup> /sec)	10 min <0.005 30 min <0.005 60 min <0.005 120 min <0.005
<b>Appearance/Colour</b>	Concrete Grey

### PACKAGING

**EUCOPATCH P** is packaged in 25 kg bags.

### SHELF LIFE

1 year in original, unopened package.

### COVERAGE

**Bonding Mortar:** 1.65 kg/m<sup>2</sup> per coat.

**Reinforcement Protection:** 1.65 kg/m<sup>2</sup> per coat of 1 mm thick (2 coats required).

**Note:** Coverage rates are approximate. Actual coverage depends on temperature, texture and substrate porosity

## DIRECTIONS FOR USE

**Surface Preparation:** The surface must be structurally sound, clean and free of grease, oil, curing compounds, soil, dust and other contaminants. Surface laitance must be removed. Concrete surfaces must be roughened and made absorptive, preferably by mechanical means, and then thoroughly cleaned of all dust and debris. If the surface was prepared by chemical means (acid etching), a water/baking soda or water/ammonia mixture, followed by a clean water rinse, must be used for cleaning, in order to neutralise the substrate. The substrate should be saturated, surface-dry (SSD) prior to application, with no standing water/puddles. Following surface preparation, the strength of the surface can be tested if quantitative results are required by project specifications. An elcometer or similar tensile pull tester may be used in accordance with ASTM D4541, and the tensile pull-off strength should be at least 1.7 MPa.

When coating steel, all contamination should be removed and the steel surface prepared to a “near white” finish (SSPC SP10) using clean, dry blasting media.

**Mixing:** Mix **EUCOPATCH P** using a drill and a mixing paddle. Pour the correct proportion of water in to a suitable mixing container. While stirring slowly add **EUCOPATCH P** to the water, then mix thoroughly for 3 minutes. Scrape the bottom and sides of the containers at least once during mixing. Do not scrape bottom or sides of the container once mixing operations have ceased; doing so may result in unmixed materials being applied to the substrate. Unmixed materials will not cure properly.

**Application: Bonding agent:** Apply one coat of freshly mixed **EUCOPATCH P** slurry to the SSD surface using a brush at a rate of 1.65 kg/m<sup>2</sup> followed immediately by a “wet-on-wet” application of repair mortars.

**Anti-corrosion coating:** Coat the exposed reinforcing steel, making sure to coat the underside portion of the steel as well. Apply **two** coats, at 2 mm thick each, of **EUCOPATCH P** to the properly prepared steel using a stiff bristle brush prior to the application of the repair mortar.

**Note:** If the mixed **EUCOPATCH P** exceeds its open time, do not dilute further with water. The mix should be discarded.

## CLEAN UP

Clean tools and application equipment immediately with water. Clean spills or drips with water while still wet. Hardened **EUCOPATCH P** will require mechanical abrasion for removal.

## PRECAUTIONS/LIMITATIONS

- Store **EUCOPATCH P** indoors, protected from moisture, at temperatures between 18°C and 27°C
- Surface and ambient temperature during applications should be between 7°C and 32°C
- Material temperatures should be at least 7°C and rising
- Working time and cure time will decrease as the temperature increases, and will increase as the temperature decreases
- Do not thin **EUCOPATCH P**
- **EUCOPATCH P** is not to be used as a finished/aesthetic coating
- Do not mix **EUCOPATCH P** for longer than 3 minutes
- Protect applied **EUCOPATCH P** from wind and excessive heat. These conditions will shorten open time.
- In all cases, consult the product Safety Data Sheet before use

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