

Conpatch® 300

THIN FAIRING COAT FOR CONCRETE SURFACE REPAIRS

DESCRIPTION

A polymer modified cementitious one part cosmetic repair mortar and thin fairing coat for concrete surface. Complies to EN1504 part 9 and EN1504 Part 3.

- Principle 3 : Concrete Restoration (CR).
 - Method 3.1 - Applying mortar by hand.
 - Method 3.3 - Spraying concrete or mortar.

USES & ADVANTAGES

Conpatch 300 is used to repair minor surface defects on concrete mortar & stone. As a cosmetic repair material it is used to eliminate small defects due to bubbles, demoulding etc. Suitable for small repairs to precast concrete, columns, beams and fair faced concrete.

Advantages include:-

- Ready to use, one part.
- Good adhesion.
- Non toxic.
- Spray or brush apply.
- No corrosive effect to reinforcement.
- Good mechanical strength.
- Fast strength development.
- **Conpatch 300** may be over-coated.
- Non shrink.

PROPERTIES

Appearance:	Grey powder
Density:	Bulk density : ~1.38 kg./l. Fresh mortar : ~2.15 kg./l.
Pot life:	25-35 min @25 °C
Compressive Strength: ASTM C109	35-45 N/mm ² (28 days at 25°C, 50% rel. humidity)
Flexural Strength: ASTM C348	5-6 N/mm ² (28 days at 25°C, 50% rel. humidity)
Bond Strength to Concrete: ASTM D 4541	1.5-2.5 N/mm ² (28 days at 25°C, 50% rel. humidity)
Modulus of Elasticity:	19,600 N/mm ²
Coefficient of Thermal Expansion:	14 x 10 ⁻⁶ m ³ /C
CO2 Diffusion Resistance (α H2O):	600
Water Vapour Diffusion Resistance (α H2O):	93
Water Absorption ISAT : BS 1881 Part 5	10 mms < 0.009 ml/m ² /sec 2 hours < 0.006 ml/m ² /sec

SUBSTRATE PREPARATION

Ensure the substrate is clean, free from laitance, oil & grease. No loose particles should be present. The substrate must be saturated thoroughly for at least 2-4 hours before application of **Conpatch 300**.

MIXING

Mix **Conpatch 300** to water at no more than 5 : 1 (by weight) 3.6 : 1 (by volume). Add slowly the **Conpatch 300** to the water while mixing. Mix for approx. 3 minutes.

Mixing should be done by slow speed drill (500 r.p.m.) and using a proper mixing paddle. The entire contents of the bag should be mixed otherwise the product may not perform to specification.

METHOD OF USE

Apply **Conpatch 300** to the prepared area by trowel or putty knife. Work in a thin layer less than 2 mm. Finish off & smooth the repaired area with a soft sponge.

CONSUMPTION

Approx. 1.8 kg/m²/mm.

PACKAGING

20 kg. 4 Ply plastic lined bags.

STORAGE & SHELF LIFE

Conpatch 300 should be stored in original, unopened packaging in a cool place away from moisture & naked flame. The shelf life is at least 9-12 months in unopened bags.

HEALTH & SAFETY

Conpatch 300 is non-toxic but is alkaline in its nature. When applying gloves & goggles should be worn. Wash off splashes to skin with water. If in eyes wash out with plenty of clean water and seek medical attention. **Conpatch 300** is non-flammable.

TECHNICAL SERVICE

The Cormix International Technical Service Department is available to assist you in the correct use of our products and its resources are at your disposal entirely without obligation.

QUALITY ASSURANCE

ISO 9001 : 2015 verified by TUV Nord.
ISO 14001 : 2015 verified by Lloyd's Register International.

DISCLAIMER

Performance data is achieved testing in accordance with International Standards. Testing by others may result in different results from those published as a result of external factors such as poor sampling, incorrect mixing, varying temperatures, curing, crushing procedures etc. Cormix does not take responsibility nor need to defend others testing that does not achieve the published data. The user must test the products suitability for the intended application and purpose. Cormix reserves the right to change the properties of the product. Site conditions and differences in materials are such that no warranty or fitness for a particular purpose, nor liability can be inferred from the published data sheet, written recommendations or from other advise offered.

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