**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**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Grey powder</td>
</tr>
<tr>
<td>Density</td>
<td>Bulk density: ~1.38 kg/l.</td>
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<td></td>
<td>Fresh mortar: ~2.15 kg/l.</td>
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<tr>
<td>Pot life</td>
<td>30 minutes at 20°C</td>
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<tr>
<td></td>
<td>15 minutes at 30°C</td>
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<tr>
<td>Compressive Strength</td>
<td>35-45 N/mm² (28 days at 25°C, 50% rel. humidity)</td>
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<td>ASTM C109</td>
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<tr>
<td>Flexural Strength</td>
<td>5-6 N/mm² (28 days at 25°C, 50% rel. humidity)</td>
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<td>ASTM C348</td>
</tr>
<tr>
<td>Bond Strength to Concrete</td>
<td>1.5-2.5 N/mm² (28 days at 25°C, 50% rel. humidity)</td>
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<td></td>
<td>ASTM D 4541</td>
</tr>
<tr>
<td>Modulus of Elasticity</td>
<td>19,600 N/mm²</td>
</tr>
<tr>
<td>Coefficient of Thermal Expansion</td>
<td>14 x 10⁶ m°C</td>
</tr>
<tr>
<td>CO₂ Diffusion Resistance (as H₂O):</td>
<td>600</td>
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<tr>
<td>Water Vapour Diffusion Resistance (as H₂O):</td>
<td>93</td>
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<tr>
<td>Water Absorption ISAT</td>
<td>BS 1881 Part 5</td>
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<tr>
<td></td>
<td>10 mms &lt; 0.009 ml/m²/sec</td>
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<tr>
<td></td>
<td>2 hours &lt; 0.006 ml/m²/sec</td>
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<tr>
<td>Pot life</td>
<td>25-35 min @25°C</td>
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**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**

**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.

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 advice offered.

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