

Conpatch® Marine

HIGH EARLY STRENGTH REPAIR MORTAR FOR MARINE APPLICATIONS

DESCRIPTION

Conpatch Marine mortar is a structural repair/ reprofiling mortar for use in marine and tidal areas subjected to early immersion. Complies with BSEN 1504 Part 3

USES & ADVANTAGES

Use to achieve rapid repairs in areas subject to early water immersion or traffic. Ideal for repairing marine structures.

Advantages include:-

- Very rapid strength gain.
- Compatible to substrate.
- One part easy to mix & apply.
- Very dense with low shrinkage to reduce the incidence of chloride or moisture ingress.
- Excellent resistance to wash out.
- Non toxic.
- Thixotropic allowing for 30 mm+ build on vertical surfaces.
- Complies with EN 1504 Part 3

PROPERTIES

Appearance:	Grey Powder
Wet Density:	Approx 2,100 kg/m ³
Bond Strength to Concrete: ASTM D4541	> 2.5N/mm ² at 28 days (Concrete failure)
Drying Shrinkage: ASTM C490	< 500 micron at 28 days
Pot Life :	5-10 minutes when applied in mortar consistency.

Compressive Strength at 30°C ASTM C109

<u>Compressive Strength</u>	<u>Typical Results</u>
2 hours	> 25 N/mm ²
4 hours	> 35 N/mm ²
8 hours	> 40 N/mm ²
24 hours	> 50 N/mm ²
28 days	> 70 N/mm ²

Water Content: 10 %

Note: These are typical figures results may vary depending on water content used, mixing time, and ambient temperature.

SUBSTRATE PREPARATION

Surfaces should be clean, sound and free from oil, grease, laitance and loose particles. Metal surfaces should also be clean & free from rust, oil & grease.

MIXING

Conpatch Marine should be mixed using a suitable mixer. Use a slow speed < 400 rpm hand drill and paddle. For large works use a high shear vane grout mixer. Drum mixers may not mix sufficiently. Add slowly to the water (add the total bag). Mix continuously for 3 minutes ensuring a smooth even consistency is obtained.

APPLICATION

Ensure the substrate is correctly prepared, no contamination and saturated with water at least 3-4 hours prior to placing. No free water should be left. Place within 5-10 minutes of mixing.

CURING

To prevent rapid surface drying and crazing, use a suitable curing compound from Cormix's Corcure range. e.g. **Corcure 90**. At temperatures below 20°C early strength gain maybe affected.

IMPORTANT NOTES

- Minimum applied thickness of **Conpatch Marine** is 10 mm.
- At temperatures above 35°C - 40°C cooling of water with ice will make handling & placement easier. Mixers & tools should be kept shaded.
- Place as soon as mixed.

CONSUMPTION

Approx 94 x 20 kg bags/m³ using 10% water.

CLEANING

Clean all tools with water immediately after use.

PACKAGING

20 kg. 4 Ply plastic lined bags.

STORAGE CONDITIONS & SHELF LIFE

Store in dry shaded conditions. The shelf life is 6 months if kept dry in original packaging. High temperatures and humidity may reduce shelf life.

HEALTH & SAFETY

During use avoid inhalation of dust & contact with skin & eyes. Wear protective clothing. In case of contact with skin, rinse with plenty of clean water, then cleanse with soap and water. In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice. If swallowed, seek medical attention immediately - **do NOT** induce vomiting.

Conpatch® Marine**HIGH EARLY STRENGTH REPAIR MORTAR FOR MARINE APPLICATIONS****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 : 2008 verified by TUV Nord

CONTACT DETAILS

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