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FAST MORTAR XTREMERAPID XR



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Product description

Fast mortar XtremeRapid XR is an exceptionally fast cement-based compound. The product's setting time is approx. 10 minutes, and the working time approx. 4–5 minutes. Suitable for installing fence posts without additional supports, and can be used for repairing concrete structures and for rapid castings. The rapid mortar can also be used in winter due to its fast strength development. By adjusting the amount of water, the product can be mixed into a paste-like or a pourable consistency. For indoor and outdoor use.

- Extremely fast setting
- Hand-applicable
- Workability adjustable with water amount

Applications

- Installation of fence posts without additional supports
- Repairs of concrete structures
- Rapid castings where the structure must be put into use immediately
- Repairs and sealing of concrete wells

The product is listed in the portal for building products that can be used in Nordic Swan Ecolabelled buildings.

Instructions

Substrate

- The substrate may be a concrete surface, a formwork, or, in fence post installations, a ground pit.

Concrete substrates

- The substrate must be clean, solid, and free from dust.
- Loose layers, cement laitance, and other contaminants must be removed mechanically to ensure proper adhesion between the product and the substrate.
- Smooth concrete surfaces must be roughened.
- The substrate must be sufficiently strong, stable, and load-bearing.
- The temperature of the concrete surface to be repaired must be above +5°C.
- In winter conditions, it must be noted that the product cannot be applied onto frozen concrete, as frozen concrete lacks the water absorption required for proper adhesion. When cast into a formwork or ground pit, this is not an issue.

Priming

- No bonding primers are used with this product.

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- Priming is performed by moistening the substrate with water approx. one hour before application. The surface must be matt-damp; no free water may remain on the substrate.

Instructions for use

- Mix one 25 kg bag of dry powder with 3.0–3.3 litres of cold water.
- With a low amount of water, the mix becomes moldable; with a normal amount of water, it becomes pourable.
- Use warm water when working below +10°C, and hot water in freezing conditions.
- Do not overdose water, as this weakens the product's strength properties.
- Mix thoroughly into a homogeneous mass using a drill mixer. Mixing time 1.5–2 minutes.
- Apply the product to the working surface with a suitable tool.
- Working time approx. 4–5 minutes after water addition.
- Clean tools immediately after work with water.
- Hardened product can only be removed mechanically.

Covering

- The product may be left uncovered or uncoated.
- The product's strength properties and other technical characteristics make it suitable as a substrate for most materials.

Curing

- The product does not require curing.

Waste handling

Storage and handling of waste
See the separate storage and disposal instructions https://www.fescon.fi/en/material-bank

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Technical information

Material usage	Approx. 2 kg/m^2/1 mm
Water requirement	3.0 - 3.3 l / 25 kg
Finished compound	11–11.5 litres of mortar from a 25 kg sack
Type	Powder
Binder	Special cement
Colour	Grey
Maximum grain size	1.2 mm
Package size	25 kg
Storage	1 year in the original packaging in a dry place
Fibre	Not fibre-reinforced
Additives	Additives that improve workability
Usage temperature	See instructions for use
Workability time	Approx. 4-5 minutes
Walkable	Approx. 10 minutes
Compressive strength	C 30
Flexural bond strength	F5 (EN 13813)
Reaction to fire	A1
Frost resistance	Frost-resistant, for indoor and outdoor use
Waterproofness	Water-resistant
GWP A1-A3	0,46
GWP unit	kg CO2e/kg
Method for calculating the GWP value	Generic

Limitation of liability, product use notes and restrictions: Please familiarize yourself with Fescon Oy's general terms of delivery and the design and work instructions related to the product.