Technical Data Sheet

VANDEX RAPID M

Rapid waterproofing repair mortar

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Description

VANDEX RAPID M is a cementitious, ready-mixed repair mortar resistant to water and moisture.



Features and Benefits

- After 1 hour - resistant to load
- Waterproof at 10mm layer thickness
- For horizontal and vertical application
- Designed for use in sewers and manholes

Usage Purpose

Due to its composition, based on cement and quartz with graded grain-size distribution, and special chemical ingredients of an inorganic nature VANDEX RAPID M is waterproof at a layer thickness of 10 mm. It is durable and resistant to frost after setting, and at the same time vapour permeable. The initial and final compressive strength of VANDEX RAPID M is excellent. The setting process is accelerated. Resulting in VANDEX RAPID M being resistant to load after 1 hour (20°C / 65% relative humidity).

VANDEX RAPID M is resistant to domestic sewage.

Areas Of Application

VANDEX RAPID M is a versatile waterproofing and repairing mortar for horizontal and vertical concrete or masonry surfaces.

Packaging

25 kg PE-lined paper bags

Storage

When stored in a dry place in unopened, undamaged original packaging, shelf life is 12 months.

Certificates & Approvals

EN 1504-3:2005/ZA.1a CC repair mortar for structural repair.

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Technical Characteristics

Appearance		Grey powder
Adhesive Strength At 28d	[N/mm²]	> 2.0
Aggregate State		Powder
Bending Tensile Strength At 28 Days (Stored In Water)	[N/mm²]	5.5
Bulk Density	[kg/l]	approx. 1.65
Colour		Grey
Compressive Strength At 1h	[N/mm²]	0.5
Compressive Strength At 28d (Stored In Water)	[N/mm²]	36.5
Compressive Strength At 3h	[N/mm²]	5.0
Exposure Class	EN 206-1 : 2013	Carbonation: XC1, XC2, XC3, XC4 Chlorides without seawater: XD1, XD2, XD3 Chlorides from seawater: XS1, XS2, XS3 Frost attack with/without deicing agent: XF1, XF2, XF3, XF4 Chemical attack: XA1, XA2, XA3
Further Data		refer to CE marking
Setting Time At 20°C	[min.]	approx. 15-30
Compressive Strength At 6h	[N/mm²]	23.5

All data isaveraged from several tests under laboratory conditions. In practice, climatic variations such as temperature, humidity, and porosity of substrate may affect these values.

Substrate Preparation

The substrate to be treated must be sound and even, open-pored and its surface free from voids, large cracks or ridges. Bitumen, oil, grease, remains of paint, laitance and unsound concrete have to be removed by suitable means (e.g. water jetting, sand blasting). Thoroughly moisten the substrate, it must be damp but not wet at the time of application. Any surface water on horizontal surfaces must be removed.

Mixing

Mix 25 kg of VANDEX RAPID M with 3.75 to 4.25 litres of clean water in a clean container for at least 4-5 minutes to a lump-free, homogeneous consistency. Use a mechanical mixer. If the mixture starts to set do not add more water, restir to restore workability. After mixing workability time is 5-10 minutes.

Application

Do not apply at temperatures below +5 °C or to a frozen substrate. VANDEX RAPID M is applied in one working cycle (e.g. with the trowel) in a layer thickness of 6–12 mm (12–24 kg/m²). After initial hardening it can be briefly treated with a plasterer's float, or provided with a broom finish to increase the non-slip quality.

Consumption Text

2 kg/m² of VANDEX RAPID M is required to produce a layer thickness of 1 mm.

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Guarantee / Warranty

Tremco CPG UK Ltd products are manufactured to rigid standards of quality. Any product which has been applied (a) in accordance with Tremco CPG UK Ltd written instructions and (b) in any application recommended by Tremco CPG UK Ltd, but which is proved to be defective, will be replaced free of charge. No liability can be accepted for the information provided in this leaflet although it is published in good faith and believed to be correct.

Tremco CPG UK Limited reserves the right to alter product specifications without prior notice, in line with Company policy of continuous development and improvement.

Health And Safety Precautions

Safety data sheet must be read and understood before use.

Technical Service

Tremco CPG UK Limited has a team of experienced Technical Sales Representatives who provide assistance in the selection and specification of products. For more detailed information, service and advice, please call Customer Services on 01942 251400.

Curing

Keep damp and provide suitable protection against extreme weather conditions (e.g. rain, sun, wind, frost) while setting. Avoid contact with flowing water until 1 hour after application.

Certification

CE

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