RAPID M

Rapid waterproofing repair mortar

- *after 1 hour – resistant to load*
- *waterproof at 10 mm layer thickness*
- *for horizontal and vertical application*
- *designed for use in sewers and manholes*

Compressive strength	class R3 ≥ 25 MPa
Chloride ion content	≤ 0.05 %
Adhesive bond	≥ 1.5 MPa
Carbonation resistance	passed
Modulus of elasticity	≥ 20 GPa
Thermal compatibility	
Part 1: Freeze thaw with de-icing salt immersion	≥ 2.0 MPa
Part 4: Dry thermal cycling	≥ 2.0 MPa
Capillary absorption	≤ 0.5 kg/m² · $h^{0.5}$
Reaction to fire	class A1
Dangerous substances	complies with 5.4

CE
0761

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EN 1504-3:2005/ZA.1a
CC repair mortar for structural repair
(based on hydraulic cement)

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

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

PROPERTIES
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% rel. humidity).
VANDEX RAPID M is resistant to domestic sewage.

SURFACE 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 3.75-4.25 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-skid quality.

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.

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

PACKAGING
25 kg PE-lined paper bags

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

HEALTH AND SAFETY
VANDEX RAPID M contains cement.
Irritating to respiratory system and skin. Risk of serious damage to eyes. – Keep out of the reach of children. Do not breathe dust. Avoid contact with skin and eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable gloves and eye/ face protection. If swallowed, seek medical advice immediately and show this container or label. – For further information please refer to Safety Data Sheet on www.vandex.com.

TECHNICAL DATA		
Aggregate state		powder
Colour		grey
Bulk density	[kg/l]	approx. 1.65
Setting time	[min.]	approx. 15–30
Compressive strength	[N/mm²]	1 h: 0.5 3 h: 5.0 6 h: 23.5 28 days: 36.5 (stored in water)
Bending tensile strength	[N/mm²]	28 days: 5.5 (stored in water)
Adhesive strength	[N/mm²]	28 days: > 2.0

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

Construction Products Group Europe

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