RAPID XL

Rapid reprofiling mortar

- *after 2 hours – resistant to load*
- *100 mm applicable in one working cycle*
- *fibre reinforced*
- *designed for use in manholes and sewers*

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
Capillary absorption	≤ 0.5 kg/m² · $h^{0,5}$
Reaction to fire	class A1
Dangerous substances	complies with 5.4

CE
0761

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

PRODUCT DESCRIPTION
VANDEX RAPID XL is a cementitious, ready-mixed, one component, fibre reinforced, rapid setting reprofiling mortar.

AREAS OF APPLICATION
VANDEX RAPID XL is a versatile repairing mortar for horizontal and vertical concrete surfaces.

PROPERTIES
VANDEX RAPID XL is a low shrinkage mortar. Due to being a fibre reinforced material it is substantially resistant to abrasion and capable to take strong mechanical wear. The material can be applied in great thickness. The setting process is accelerated. Resulting in VANDEX RAPID XL being resistant to load after 2 hours. VANDEX RAPID XL 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 XL 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 XL is applied by trowel in layer thickness up to 10 cm in one working cycle. For small areas such as coves or local repairs VANDEX RAPID XL may be applied in layer thicknesses up to 20 cm. Strike off after application and when following coats are to be applied slightly roughen the surface while still damp.

CONSUMPTION
20 kg VANDEX RAPID XL/m² are required to produce a layer thickness of 10 mm.

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 2 hours after application.

PACKAGING
25 kg PE-lined paper bag

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

HEALTH AND SAFETY
VANDEX RAPID XL 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. 1.5
Setting time	[min.]	approx. 30–60
Compressive strength	[N/mm²]	1 h: 0.5 3 h: 2.0 1 day: 13.0 28 days: 50.0 (stored in water)
Bending tensile strength	[N/mm²]	28 days: 8.5
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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