

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	CE 0761 Vandex Isoliermittel-GmbH Industriestr. 19-23 DE-21493 Schwarzenbek 11 209 EN 1504-3:2005/ZA.1a CC repair mortar for structural repair (based on hydraulic cement)
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/m ² · h ^{0.5}	
Reaction to fire	class A1	
Dangerous substances	complies with 5.4	

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 3–4 litres of clean water in a clean container for at least 3 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.

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/mm ²]	1 h: 0.5 3 h: 2.0 1 day: 13.0 28 days: 50.0 (stored in water)
Bending tensile strength	[N/mm ²]	28 days: 8.5
Adhesive strength	[N/mm ²]	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.		

The information contained herein is based on our long-term experience and the best of our knowledge. We can, however, make no guarantee since for a successful outcome, all circumstances in an individual case must be taken into consideration. Indications of quantities required are only averages which in certain cases might be greater.



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