

Rapid setting mortar for waterproofing and repairing

- waterproofing and screed with single product
- for horizontal concrete surfaces
- resistant to abrasion and deicing salts

 0761	EN 1504-3:ZA.1a CC repair mortar for non-structural repair (based on hydraulic cement)	
	Vandex Isoliermittel- GmbH Industriestr. 19-23 DE-21493 Schwarzenbek 09 009 EN 1504-3:2005	Compressive strength Chloride ion content Adhesive bond Carbonation resistance Modulus of elasticity Thermal compatibility Part 1: Freeze thaw with de-icing salt immersion Part 4: Dry thermal cycling Capillary absorption Reaction to fire Dangerous substances

PRODUCT DESCRIPTION

VANDEX UNI MORTAR 2 is a cementitious, ready-mixed waterproofing and repairing mortar.

AREAS OF APPLICATION

- Substrate: concrete
- waterproofing and protection against water and moisture
- trafficable topping for car parks, garages, ramps and halls
- coatable waterproofing screed for horizontal concrete surfaces
- waterproof fillets for wall-floor junctions

PROPERTIES

VANDEX UNI MORTAR 2 is applied in layers of 6 to 12 mm in a single working cycle. This material is resistant to abrasion and deicing salt and thus capable to take strong mechanical wear. Due to its composition, based on cement and quartz with graded grain-size distribution and selected additives, VANDEX UNI MORTAR 2 is waterproof. It is durable and resistant to frost after setting and at the same time vapour permeable.

SURFACE PREPARATION

The substrate to be treated must be sound and even, open-pored, roughened and its surface free from voids, large cracks or ridges. Any adhesion reducing substances like bitumen, oil, grease, remains of paint or laitance must be removed by suitable means.

Water leaks must be stopped e.g. with VANDEX PLUG.

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 UNI MORTAR 2 with 3.25-4 litres of tap water in a clean container for at least 3 minutes to a lump-free, homogeneous consistency. Use a mechanical mixer. For use as mortar to fill reglets: Mix 25 kg of VANDEX UNI MORTAR 2 with 2,8-2,9 litres of tap water to mortar consistency.

APPLICATION

VANDEX UNI MORTAR 2 is usually applied manually. Apply a minimum of 6 mm (approx. 12 kg/m²) and a maximum of 12 mm (approx. 24 kg/m²) in one working cycle.

For maximum adhesion first apply VANDEX UNI MORTAR 2 to the substrate using a stiff broom or brush. Pour then the product over the horizontal surface, compact and strike off. The operation has to be carried out speedily because VANDEX UNI MORTAR 2 sets quickly.

Do not apply at temperatures below +5 °C or to a frozen substrate.

CONSUMPTION

Approx. 2 kg/m² VANDEX UNI MORTAR 2 is required to produce a layer thickness of 1 mm.

Type of water impact	Recommended application rate	Layer thickness (approx.)
Pressurless water	12-16 kg/m ²	6-8 mm
Water under pressure	16-24 kg/m ²	8-12 mm

CURING

Keep damp for at least 5 days and provide suitable protection against extreme weather conditions (e.g. sun, wind, frost) while setting. The freshly treated surfaces should be protected from rain for a minimum period of 24 h.

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 UNI MORTAR 2 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		
Appearance		grey powder
Aggregate size d_{max}	[mm]	2
Density of wet mix	[kg/l]	approx. 2.2
Workability at 20 °C	[Min.]	approx. 30
Setting time at 20 °C	[h]	approx. 2-3
Compressive strength 28 d	[MPa]	approx. 40
Bending tensile strength 28 d	[MPa]	approx. 7
Static modulus of elasticity 28 d	[GPa]	approx. 33
Capillary absorption	[kg/m ² ·h ^{0.5}]	0.17
Further data		refer to CE marking

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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