

## Waterproofing and Repairing Mortar

- for horizontal and vertical concrete surfaces
- resistant to frost and deicing salts
- approved for drinking water structures

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**Product Description** VANDEX UNI MORTAR 1 is a cementitious, ready-mixed, efflorescence-free surface waterproofing and repairing mortar with hydrophobic properties, resistant to water and moisture.

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**Areas of Application** VANDEX UNI MORTAR 1 is a versatile waterproofing and repairing mortar for horizontal and vertical concrete or masonry surfaces. Due to its mineralic composition it is especially suited for drinking water structures.

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**Properties** VANDEX UNI MORTAR 1 is to be applied in layers of 6 to 12 mm thickness, in one working cycle because of its granulometry. This material is substantially 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 grainsize distribution, and special chemical ingredients of an inorganic nature VANDEX UNI MORTAR 1 is waterproof (tested up to 7 bars at a layer thickness of 10 mm). It is durable and resistant to frost after setting, and at the same time vapour permeable.

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**Surface Preparation** The substrate has to be firm, and its surface free from voids and large cracks. Bitumen, oil, grease or remains of paint must be removed by suitable means. Dirt, soil, loose particles, form oil, cement laitance etc. have to be removed by bush hammering or sand blasting. The substrate must be well moistened until it gets a dull dampness at the time the coating is being applied.

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**Mixing** Place 25 kg of VANDEX UNI MORTAR 1 in a clean container, add 3 - 4 litres of water and stir for at least 3 minutes with a mechanical mixer.

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**Application** Pour VANDEX UNI MORTAR 1 over **horizontal** surface (max. 12 mm per layer), then compact and strike off. 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. Apply VANDEX UNI MORTAR 1 to vertical surfaces like normal render. It may also be applied by a suitable mortar pump. Do not apply at temperatures below +5° C, or to a frozen substrate, and provide protection against extreme weather conditions during the setting period. Keep coatings moist during initial setting and hardening.

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**Consumption** 2 kg VANDEX UNI MORTAR 1 /m<sup>2</sup> are required per one millimetre of layer thickness. Layer thickness of 6 - 12 mm corresponds to a consumption of 12 - 24 kg/m<sup>2</sup>.

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**Packaging** 25 kg PE-lined paper bags.

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

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**Technical Data**

Aggregate state	powder
Colour	grey
Bulk density	approx. 1,85 kg/l
Setting time	approx. 5 to 6 hours
Compression strength	40 N/mm <sup>2</sup> 28 days air storage 20° C/65 % relative humidity
Bending tensile strength	7 N/mm <sup>2</sup> 28 days air storage 20° C/65 % relative humidity
Modulus of elasticity	3 x 10 <sup>4</sup> N/mm <sup>2</sup> 28 days air storage/23° C/50 % relative humidity
All data are averages of several tests under laboratory conditions. In practice, climatic variations such as temperature, humidity, and porosity of substrate may affect these values.	

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**Health and Safety** VANDEX UNI MORTAR 1 contains cement.  
Irritating to eyes and skin. May cause sensitization by skin contact. Keep out of reach of children. 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.  
For further information please refer to Material Safety Data Sheet.

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.



**CONCRETE PROTECTION AND WATERPROOFING**

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