

Application Guidelines

Related Product Information

- Data Sheet & Material Safety Data Sheet:
VANDEX UNI MORTAR 2

Content

- 1. Preparation of Substrate**
- 2. Pre-watering**
- 3. Mixing**
- 4. Climatic Conditions**
- 5. Layer thickness**
- 6. Application Methods**
- 7. Consumption**
- 8. Curing and Protection**
- 9. Health and Safety**

1. Preparation of Substrate

Concrete to receive VANDEX UNI MORTAR 2 treatment must have a clean and well keyed surface to ensure maximum bonding. Surfaces to be waterproofed should be examined for structural defects, and unacceptable conditions reported and remedied.

Remove all cement laitance, shutter release agent, curing compound, loose particles, etc. by means of light, wet or dry sandblasting, high pressure water jetting or wire brushing.

For horizontal areas grinding machines are suitable for roughening the substrate and opening the pores.

Water leaks must be stopped in accordance with the VANDEX PLUG Application Guidelines.

Remove all protrusions and cut back to sound concrete, chasing out any honeycombed or damaged areas.

Construction joints and shrinkage cracks exceeding 0.3 mm should be routed out to a minimum depth of 20 mm. Shutter tie holes should be roughened.

Clean all chased out areas, shutter-tie holes, etc. and pre-water until the concrete is saturated. Following this, fill the areas with VANDEX UNI MORTAR 1 in layers, the number depending on the total layer thickness.

2. Pre-watering

Prior to applying VANDEX UNI MORTAR 2, carefully rinse all the surfaces to be waterproofed and pre-water with clean water.

Pre-water several times so that the concrete is thoroughly saturated. When VANDEX UNI MORTAR 2 is applied, the surface should be damp but not wet. Excess water should be removed using a wet-/dry vacuum cleaner.

3. Mixing

Place 25 kg of VANDEX UNI MORTAR 2 in a clean container, add 3.0 - 3.75 litres of water and stir for at least 3 minutes with a mechanical mixer.

4. Climatic Conditions

Do not apply VANDEX UNI MORTAR 2 at temperatures below +5 °C (40 °F) or to frozen substrate.

5. Layer Thickness

Minimum layer thickness per layer:	6 mm
Maximum layer thickness per layer:	12 mm

6. Application Methods

VANDEX UNI MORTAR 2 is specially designed for application to horizontal or sloping surfaces where the product combines the functions of

a waterproofing layer and a wearing resistant screed. VANDEX UNI MORTAR 2 is usually applied manually to the specified layer thickness.

For larger areas it is advantageous to apply VANDEX UNI MORTAR 2 in strips approx. 1.5 m wide, alternating with untreated sections of a similar width.

Use metal rails the same thickness as the final layer thickness (8 - 12 mm) and 20 - 30 mm width as guides and place the rails parallel to each other the desired strip width apart. The fast setting properties of VANDEX UNI MORTAR 2 enables the shoulders of the strips already applied to be used as guides when screeding the alternating strips.

VANDEX UNI MORTAR 2 is first mixed to a slurry consistency and is applied as a bonding bridge to the substrate using a stiff boom or brush.

Following this, the VANDEX UNI MORTAR 2 mortar is then spread between the rails using a steel trowel. The material is compacted and stuck off level with the top of the rails, filling and levelling the surface. Trowel the surface to the required finish 20 - 40 minutes after the application before it finally sets. The setting time will depend on temperature and humidity.

After finishing operation the rails can be removed and the remaining strips screeded.

7. Consumption

2 kg/m² VANDEX UNI MORTAR 2 are required per millimetre of layer thickness.

Layer thickness of 10 mm corresponds to a consumption of 20 kg/m².

Please refer to the relevant Vandex product specifications for more detailed information.

8. Curing and Protection

VANDEX UNI MORTAR 2 is cement-based and will cure and harden in the same way as ordinary concrete. Setting and hardening will depend on the surrounding temperature and humidity.

For maximum effectiveness from your VANDEX UNI MORTAR 2 treatment, it is essential that the layers are kept damp for at least 5 days and protected against evaporation by sun and wind.

Careful postwatering should be carried out at intervals, starting the day following the application. Alternatively, the surfaces can be covered with plastic sheeting, wet mats or moist sand.

The use of curing compounds is not recommended.

Three freshly treated surfaces should be protected from rain for a minimum period of 24 h. Surfaces treated with VANDEX UNI MORTAR 2 should be protected from frost for at least 5 days. If necessary, cover with insulation mats.

9. Health and Safety

VANDEX UNI MORTAR 2 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 longterm 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.