

Application Guidelines

Related Product Information

- Data Sheet & Material Safety Data Sheet:
VANDEX CRS REPAIR MORTAR HB

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1. Preparation of Substrate

Using standard methods such as chiseling, brushing, wet or dry sand-blasting or cutting, remove all loose material, cement laitance and any contamination back to a sound and clean concrete substrate. The repair area must be free of dust, oil and grease.

Locally exposed reinforcement has to be prepared mechanically by sand-blasting until degree of SA 2 ½ and coated with VANDEX CORROSION PROTECTION M in accordance with the Application Guidelines.

2. Pre-watering

Prior to applying VANDEX CRS REPAIR MORTAR HB dampen the repair area with clean water. The surface should be damp but not wet. Any surface water on horizontal surface must be removed.

3. Mixing

Mix 20 kg of VANDEX CRS REPAIR MORTAR HB with 3 - 3.5 litres of clean water for at least 3 - 5 minutes, using a slow speed mixer.

Allow to stand briefly and, following stiffening, stir once more. Do not add more water.

When mixing large quantities, a suitable slow rotating, mechanical mixer should be used.

Depending on temperature, the potlife is approx. 30 minutes.

Contains lightweight aggregates. Whenever possible mix whole bags to avoid segregation.

4. Climatic Conditions

Do not apply VANDEX CRS REPAIR MORTAR HB at temperatures below +5 °C (40 °F) or to a frozen substrate.

5. Layer Thickness

Minimum layer thickness per coat: 5 mm

Maximum layer thickness per coat: 50 mm

For greater thicknesses, the mortar is applied in layers.

6. Application Method

6.1 Trowel application

For smaller areas VANDEX CRS REPAIR MORTAR HB may be applied using a steel trowel. A scrape coat of VANDEX CRS REPAIR MORTAR HB is applied for maximum adhesion to the substrate, working from the bottom up. All cavities and air holes must be filled in this first step of the work, thereby excluding trapped air. The mortar is then applied to the specified thickness.

6.2 Spray application

VANDEX CRS REPAIR MORTAR HB can be applied with a suitable fine mortar spraying device. The equipment required and the air used must be adjustable so that the optimum spray pattern can be achieved.

The nozzle diameter is approx. 10 mm, but depends on the spray gun used.

The compressor performance must be at least 5 bar pressure, delivering 500 l/min.

The first layer of VANDEX CRS REPAIR MORTAR HB is applied using a circular motion with the spray nozzle held at a 90° angle to the substrate. The distance between the spray nozzle and the surface will depend on the spray gun/compressed air used.

The material is then screeded with a suitable trowel. This operation levels the surface and increases adhesion to the substrate.

VANDEX CRS REPAIR MORTAR HB can be applied in several layers. If multiple layers are required it is recommended that subsequent layers be applied whilst the previous layer is still damp on the surface. The waiting time before applying the next layer is approx. 2 - 4 hours, but depends on local climatic conditions such as humidity, temperature, etc. The previous layer must not be damaged during application of the next layer.

In addition if overcoated, it is recommended that the previous layer be roughened slightly whilst still plastic. This ensures maximum adhesion between the layers. After the mortar has been screeded the surface can be smoothed with a steel trowel or abraded with a felt, sponge or wooden float.

7. Consumption

Approx. 17 kg/m² VANDEX CRS REPAIR MORTAR HB (wet mix) is required to produce a layer of 10 mm thickness. Please refer to the relevant Vandex product specifications for more detailed information.

8. Curing and Protection

Immediately after application the repairs must be protected from rapid drying out caused by high temperatures or strong winds, for 2 - 3 days. Use plastic foil or moist hessian.

The use of curing membranes is not recommended.

9. Painting

All surfaces treated with VANDEX CRS REPAIR MORTAR HB, which are to be coated or painted, must be left to cure for at least 4 weeks.

The paint used has to be water vapour permeable and alkali resistant.

10. Health and Safety

VANDEX CRS REPAIR MORTAR HB contains cement. Irritating to eyes and skin. 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.