

## Application Guidelines

### Related Product Information

- Data Sheet & Material Safety Data Sheet:  
VANDEX CRS REPAIR MORTAR 05

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### 1. Preparation of Substrate

Using standard methods such as chiseling, brushing, wet or dry sand-blasting and 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, tar, paint and grease.

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

### 2. Pre-watering

Prior to apply VANDEX CRS REPAIR MORTAR 05 dampen the repair area with clean water. The surface should be damp but not wet. Any surface water on horizontal surfaces must be removed.

### 3. Mixing

Mechanically mix 25 kg of VANDEX CRS REPAIR MORTAR 05 with 3.0–3.5 litres of water for 3–5 minutes.

Restir briefly after a short standing time. Do not add more water.

### 4. Climatic Conditions

Do not apply VANDEX CRS REPAIR MORTAR 05 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:

- A) horizontal/vertical application 35–50 mm
- B) overhead application 25 mm

For greater reprofiling depths, the mortar is applied in successive layers.

### 6. Application Methods

#### 6.1 Trowel application

For smaller areas VANDEX CRS REPAIR MORTAR 05 may be applied using a steel trowel. A scrape coat of VANDEX CRS REPAIR MORTAR 05 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 05 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 05 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 05 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 moist.

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. 20 kg/m<sup>2</sup> VANDEX CRS REPAIR MORTAR 05 (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 05, 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 05 contains cement.

Irritating to skin. Risk of serious damage to eyes. Keep out of 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.

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.