

# General Application Advice

## Coarse Mortars / Concrete Replacement Systems

### Application Guidelines

#### Substrate preparation

The concrete substrate is to be prepared in a manner to ensure a solid and durable bond can be achieved between the coarse mortar/concrete replacement to be applied and the concrete substrate (old concrete). Thus the concrete substrate must be clean and free from all loose particles, dust, oil and any other contaminants. Cement laitance must be removed. The surface tensile strength of the concrete substrate must comply with the relevant technical regulations. The substrate must also exhibit sufficient surface roughness. Thus the surface-near, coarse aggregates must be exposed in domed shape.

#### Reinforcement

Exposed reinforcing steel is to be de-rusted in accordance with EN ISO 12944-4. It must be free from rust and any other separating or corrosion inducing substances. Compressed air blasting with solid grit is the most suitable cleaning method.

Reinforcing steel to be coated must be prepared at least to degree of blasting Sa 2 1/2.

Reinforcing steel that remains uncoated must be prepared that the entire exposed area complies with degree of blasting Sa 2.

The instructions in the relevant regulations are to be observed.

#### Bond coat

Before application of the bond coat the substrate must be pre-wetted. In case of highly-absorbent substrates a repeated pre-wetting might be necessary. The bond coat must be thoroughly brushed

into the matt-moist, but not water-saturated substrate. Following this application step the coarse mortar/concrete replacement is applied fresh-in-fresh into the matt-moist bond coat.

If applied by wet spraying technique a bond coat is not necessary.

#### Application conditions

The application time depends on climatic conditions. Material which has begun to stiffen must not be mixed again and must not be used. The minimum application temperatures for substrates, air and materials of + 5 °C must be observed.

At temperatures below + 5 °C application must be stopped. All necessary measures to prevent a drop below this temperature during the curing phase must be taken.

#### Multiple layer application

Application can be done in one or more layers. If two or more layers are applied, each subsequent layer of coarse mortar/concrete replacement must be applied while the previous one is sufficiently stiff but not dried out. If the previous layer is dried-out it must be pre-wetted and a bond coat must be applied beforehand.

#### Curing

Curing according to the indications given in the technical data sheets.

#### General information

The application conditions indicated in the technical data sheets generally relate to the material, substrate and air.

**Note:** The information on this data sheet is based on our experiences and correct to the best of our knowledge. It is, however, not binding. It has to be adjusted to the individual structure, application purpose and especially to local conditions. Our data refers to the accepted engineering rules, which have to be observed during application. This provided we are liable for the correctness of this data within the scope of our terms and conditions of sale-delivery-and-service. Recommendations of our employees which differ from the data contained in our information sheets are only binding if given in written form. The accepted engineering rules must be observed at all times.

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