

BAU 180

Anticorrosion coating concrete reinforcement and adhesion bridge before applying repair material .



Description

Anti-corrosion concrete reinforcement coating, one component, cementitious base, suitable for spreading the concrete before applying repair materials.

Substrates:

- No shrinkage during the plastic phase of curing
- High resistance to chemicals and factors that produce carbonation
- High elasticity
- Excellent adhesion to concrete, steel and mortar, shows high alkalinity
- Easy to apply by brush or spray (large surfaces) Examples of applications
- For the corrosion protection of steel reinforcement, which has been damaged due eg carbonation etc.
- To protect the reinforcement in new construction and in cases where the structural element is located in an environment with intense moisture.
- For priming concrete, steel and other construction materials before applying repair materials.
- As a bonding agent between old and new concrete or mortar

Surface Preparation

Ensure concrete surface sufficiently stable. Remove loose, detached parts, dirt, grease, dirt and loose particles and adherent substances. Fully uncover metallic reinforcement in points which will be repaired, in order to allow the coating. The reinforcement must be free of rust (purification degree SA 2 1/2, DIN 55928-4), oil, grease and any other corrosion materials. For cleaning and preparation of the concrete can become high pressure water jetting, sandblasting treatment or impulse or another suitable method of purification can be selected. For the processing of steel reinforcement can be applied sanding, brushing, needle guns or another cleaning technique. Finally wash and clean the surfaces (concrete and reinforcement) with water under pressure. The application becomes since the substrate gets damp until saturation. substrates (e.g. plaster board, cement board, MDF, old tile claddings, etc.)

Consumption

1,6 kg/m² per mm layer

Packaging

5 kg container



Mixture preparation

Prepare the material in a suitable clean container; first pouring the required quantity of clean water and then adding progressively BAU 180 in the container, stirring continuously. A low speed electric mixer (approx. 300 rpm) is recommended for mixing. Mix carefully to avoid trapped air in the mixture, until a homogeneous mass without any lumps is obtained, forming a spreadable paste. After preparation the mixture is ready for use . Using excess water will not improve material workability; on the contrary, it may result in excessive setting shrinkage and reduction of final material performance in terms of surface hardness, adhesion and compressive strength.

Instructions for use

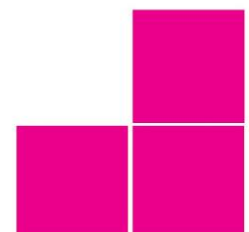
As an anticorrosive primer is applied to the reinforcement with a brush (moderate hardness), roller or spray in two layers of 1mm thickness each. The second layer is applied after the previous one has dried.

As a bonding agent after wetting of the surface up to saturation. The application of new concrete – mortar is made as the bonding layer is still fresh application of new concrete - mortar is made as the bonding layer is still fresh.

Storage

Preferably in shady and roofed locations, low in moisture, for at least 12 months.

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Technical Features

Form : Cementitious mortar
Working time: ≥ 30 min (at 20°C):
Density of fresh mortar: 2.00kg/lit
Pot life : 1 hour at 20°C
Waiting time between first and second layer:: ≥ 3 ώρες
Compressive strength: (EN 1015-11) ≥ 32 N/mm ² :
Flexural strength (EN 1015-11) ≥ 7,5 N/mm ²
Adhesion to steel: ≥ 1.0 MPa at 28 ημέρες
Adhesion to concrete: ≥ 3MPa EN 1542 in 28 days

Cleaning of tools

Tools and application equipment must be cleaned immediately after use with water. Hardened material is removed only by mechanical methods.

Remarks

- The temperature during application must be between +5°C and +35°C.
- The freshly primed surfaces must be protected against rapid evaporation of water, especially during the summer months. Also must be avoided applying under direct radiation.

Precautions and safety

The product contains cement and is classified as an irritant. No special precautions are necessary for product application except for standard precautions applicable to all construction operations, i.e. using gloves and goggles; preventing prolonged skin contact; etc. In case of eye contact, immediately wash with plenty of water and seek medical advice if necessary. Collect empty bags and plastic covers and dispose of in refuse bins designated for this purpose.

Notes

Technical details, properties, recommendations and information on BAUSKIN products are supplied in good faith. They are based on the company's research and experience, provided that they are stored and applied under normal conditions. As the method of using materials as well as project and environment conditions are beyond the control of the company in each individual application setting, the product user is held solely responsible for the result of application. No responsibility under any legitimate relationship can be substantiated against the company, based on the information set out hereunder. Product users are advised to refer to the latest revision of the technical manuals available.

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