

# ARMOSEAL

Concrete reinforcement anticorrosion coating and bonding agent.

## Description

Brushable mortar designed for protection of steel reinforcements in concrete corrosion and adhesive layer between old and new concrete or mortars.

## Features - Benefits

- Zero shrinkage during the plastic phase of hardening
- High resistance to chemicals and factors that produce carbonation.
- High elasticity
- Excellent adhesion to concrete, steel and mortar
- Easy application by brush or spray large surfaces

## Examples of applications

- For the protection of steel reinforcement from corrosion due to carbonation damage etc.
- For the protection of rebar in new construction and in cases where the component is located in an environment with intense moisture.
- For priming concrete, steel and other construction materials before applying repair materials.

## Specifications

**Form:** Cementitious mortar

**Working time:**  $\geq 30$  min (at 20°C)

**Density of fresh mortar:** 2.0kg/l

**Pot life:** 1 hour at 20°C

**Waiting time between first and second layer:**  $\geq 3$  hours

**Consumption:** 15 kg/m<sup>2</sup>/cm for each layer

**Consumption:** 1.60 kg/m<sup>2</sup> per mm of layer

**Compressive strength:**  $\geq 32$  N/mm<sup>2</sup>

**Flexural strength:**  $\geq 7,5$  N/mm<sup>2</sup>

**Adhesion to steel**  $\geq 1.0$  MPa at 28 days

**Adhesion to concrete:**  $\geq 3$ MPa in 28 days

## Substrate preparation

Ensure concrete surfaces are sufficiently stable. Remove loose, detached parts, dirt, grease. Uncover fully the steel in points which will be repaired to allow the coating. Reinforcement must be free from rust (purification degree SA 2 1/2, DIN 55928-4), oil, grease and other corrosion products. For cleaning and preparing the concrete high pressure water jetting, sandblasting treatment or other suitable method of cleaning can be used. For the steel reinforcement processing apply sanding, brush, needle guns or choose other cleaning technique. Finally wash and clean the surfaces (concrete and reinforcement) with water under pressure. The application is possible when the substrate is wet until saturation.

## Mixture preparation

In a clean container pour the required amount of water and gradually add the powder in the container under continuous stirring with a low speed mechanical stirrer. Mix carefully to avoid trapped air in the mixture, until a homogeneous mass without mortar lumps to form a spreadable paste. After preparation of the mixture do not add more water to correct the workability of the mortar. This will result in reducing its strength and increased shrinkage.

## Instructions

- As a primer against corrosion it is applied on the reinforcement with moderate hardness brush, roller or spray two layers of 1mm thickness each. The second coat is applied after the first one has dried.
- As a bonding agent after wetting the surface until saturation, apply baufferi layer 1,5 mm - 2.0mm. The application of new concrete - mortar is made as the bonding layer is still wet (application wet on wet).

## Packaging

Containers 1kg and 5kg

## Cleaning of tools

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

## Comments

- Application temperature during must be between +5°C and +35°C.

- Freshly primed surfaces must be protected from rapid evaporation of water especially during the summer months. Also, application under direct sun exposure should be avoided.

### Storage

Preferably in shady and roofed locations, low in moisture, protected against ice, high temperature and exposure to sunlight for at least 12 months.

### 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. Consult instructions for safe use indicated on product packaging. For more information please refer to the material safety data sheet of the specific product.

### Notes

Technical details, properties, recommendations and information on BAUER 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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