

Cementitious primer for protecting rebars and bonding primer for concretes and mortars.

BETOPRIM is a coating based on cement, quartz sand, acrylic resins and corrosion inhibitors. It constitutes a highly alkaline and active electro-chemical environment, which acts against corrosion, passivating the steel and presenting a coarse surface. It can be used as a bonding primer before applying the repair mortars. It complies with the requirements of standard EN 1504-7.

FIELDS OF APPLICATION

BETOPRIM is used as a rebar steel passivating agent to protect it against corrosion in:

- Rehabilitating concrete affected by corroded rebars, due to carbonation, freeze-thaw cycles, environment contamination, etc.
- New projects subject to aggressive environments.
- Chemical industrial plants, cooling towers, etc.
- Projects for marinas, piers, emissaries, etc.
- Water purifying plants.
- As a preventive measure on reinforced concrete elements with little coating and the risk of the rebars corroding or being contaminated by chlorides.

BETOPRIM can be used as a bonding primer to improve the adhesion between old and new concrete, or with repair mortars.

PROPERTIES

- Its inhibitors prevent corrosion and prolong the life of the rebars.
- It can be applied to damp surfaces.
- Perfectly compatible with the steel in the reinforcement and the repair mortars.
- It forms a passivation layer on the rebar that is impermeable to gases (CO₂, SO₂, etc.) and water.
- Excellent adherence to steel and to concrete.
- Easy to prepare and apply. It is only mixed with water.

HOW TO USE

Preparing the substrate:

The concrete substrates must be resistant, coarse, clean and without any loose particles, oils, grease or powder around the rebars. The rebars must be clean and free of rust and any concrete remains, and they must be released throughout their section. It must be cleaned with sandblasting to grade Sa 2½ or metallic brush grade St3 (standard SIS 05.09.00).

Mixing:

Mix the contents of the packaging with approximately 1 litre of clean water to an even, smooth mass. A material will be obtained with suitable viscosity for being applied by brush.

Application:

Apply a first layer of **BETOPRIM** with a hard-haired brush and at an approximate thickness of 1 mm, making sure that the whole of the rebar is covered. Leave for 30 minutes (20 °C) and then apply a second layer.

When used as a bonding primer, to the substrate previously saturated with water, apply a layer of **BETO-PRIM** with a hard-haired brush pressing on the surface, with an average thickness of 1 mm. Repair mortars must be applied to **BETOPRIM** when fresh making sure, at any event, that the mortar stains your fingertips when laid.

Tool cleaning:

The tools are to be cleaned as soon as they have been used, with water only. Once hardened, it can only be removed mechanically.

COVERAGE

With 1 kg of **BETOPRIM** you can treat 0.8 to 1 m². Depending on the coarseness of the substrate, each application creates a dry layer thickness of 0.5 to 1 mm. It is always advisable to apply two layers to protect rebars. However, the final amount used will depend largely on the condition and porosity of the substrate.

PACKAGING

5 kg packages.

STORAGE

12 months, in its original closed packaging, in a cool, covered place, protected from humidity, sunlight and freezing temperatures.

INDICATIONS TO TAKE INTO CONSIDERATION

- Apply at temperatures between +5 °C and +35 °C
- Do not add cement, sand, colouring agents or any other substance that may affect the properties of the material.
- Do not add water to the mortar once it loses its consistency, or re-mix.
- Take into account the ambient temperature, as this influences the workability time.

TECHNICAL DATA

Type	Cement and acrylic resin primer with corrosion inhibitors.
Density	1.8 ± 0.1 g/cm ³
Mixing water	20 ± 1 %
Workability time (20 °C)	60 minutes
Adherence to concrete	≥ 1.5 N/mm ²
Adherence to steel	> 3 N/mm ²
Application temperature	+5 °C to +35 °C

CE MARKING



EN 1504 - 7

Active coating for protecting rebars against corrosion

Reaction to fire	Class A1
Protection against corrosion	Pass
Pull out resistance of coated steel in concrete (shearing adhesion)	Pass
Emission of hazardous substances	According to 5.3. See SDS

HEALTH AND SAFETY

All the information about conditions of usage, use, storage, transport and removing chemical waste is available on the product Safety Data Sheet.
The product and its packaging must be disposed of according to current legislation and it is the responsibility of the product end user.

LEGAL NOTICE

The data contained in this document are based on our experience and technical knowledge, gained during laboratory assays, and our bibliography. We will not be responsible for any other product applications not indicated in this file. The dosage and consumption data are only guidelines, based on our experience, and may alter due to atmospheric or on-site conditions. For correct dosage and usage amounts, it is necessary to conduct a trial or assay "in situ", for which the client is responsible. If you have any doubts or require additional information, please contact our Technical department. December 2016.



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