

# Rurecoat 3

## Cement based corrosion inhibitor for reinforcement bars

### Product description

RURECOAT 3 is a light green colour cementitious product containing corrosion inhibitors used to actively protect concrete steel reinforcement.

RURECOAT 3 is a two-component system (a powder component "A" and a liquid component "B") which, on mixing, forms a mix to be applied by brush.

### Typical applications

It is used to protect:

- metallic reinforcement uncovered during the restoration of severely damaged concrete;
- metallic reinforcement of new structures subject to environmental aggression with very thin concrete thickness.

### Storage, dosage, yield

- RURECOAT 3 is supplied in a 5 kg package (part A, 4 kg in powder + part B, 1 kg liquid);
- store the product at a temperature of between +5°C and +30°C;
- dosage: component "A" should be mixed with component "B" in the ratio 4 :1 by weight and 3 :1 by volume;
- the yield of the product is 100-140g/m of reinforcing bar depending on its diameter.

### Use recommendations

#### a) Product preparation

Pour component "B" (liquid) into a suitable container and add the relative quantity of component "A" (powder).

Small quantities may be manually mixed, whereas large quantities should be mixed with an electric mixer with a low number of revolutions.

In both cases continue mix for at least 3-4 minutes, until completely homogeneous and free of lumps, trying to avoid air entrapment as much as possible.

Optimum product consistency is achieved when it can be applied with brush. If necessary, any of the components may be added and thoroughly mixed to change consistency. After mixing components "A" and "B" the material should be applied within 40 minutes: only prepare the quantity to be applied within such time period.

RURECOAT 3 should never be applied when temperature goes below +5°C, Make sure that such temperature value is maintained during the drying phase.

#### b) Surface preparation

The reinforcement bars should be degreased, with no rust or concrete fouling.

Whenever possible, sandblasting or cleaning with steel brush is preferred.

#### c) Laying

Apply the product on the reinforcement bars by brush.

Apply at least two coats of approximately 1mm thickness each.

At approximately +20°C the second coat may be applied after 2-3 hours.

Cement based mortar may be used 2-3 hours after application, whereas polymer based mortar only 24 hours after application.

#### d) Tools cleaning

All mixing and application tools should be cleaned immediately after use with water before the product dries.

### Properties

The following advantages may be obtained by applying RURECOAT 3 on reinforcement bars:

- perfect product adhesion to metallic reinforcement;
- barrier effect due to the formation of a shell of cement-polymer gel;
- iron passivation caused by the alkaline reaction;
- impermeability when in contact with chloride and carbon dioxide;
- the chemical reaction of inhibitors competes with the oxidizing process;
- total compatibility of RUREDIL products for concrete resurfacing;
- excellent adhesion and pull out value between bars and concrete layer.

### Technical data

Aspect	Part "A": green powder Part "B" : milky liquid
Drying time	On surface: 20min at 20°C
Application	By brush
Colour	green

### Not recommended for

To protect bars where the corroded layer has not been completely removed.



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Revision 01/2009. The present edition cancels and replaces all the previous ones. The information contained in the present technical data sheet is based on our knowledge and experience and should therefore not be taken as our guarantee. Neither shall we be responsible for the utilisation of the product since the conditions under which it is used are beyond our control

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