

# MasterEmaco P 5000 AP

**One-component cement-based passivating agent in orange color, for the active protection of reinforcing bars. Contains corrosion inhibitor.**

## MATERIAL DESCRIPTION

MasterEmaco P 5000 AP is an orange coloured one-component cement-based passivating, modified polymer, containing corrosion inhibitors



## FIELDS OF APPLICATION

MasterEmaco P 5000 AP is indicated, as a protection for reinforcements together with the application of mortars from the MasterEmaco line, in cases of:

- refurbishment of reinforced concrete elements that present, for example, localized phenomena of expulsion of the concrete cover caused by partial corrosion of the reinforcements.

It can also be used:

- in the interventions of temporary protection of the reinforcing bars which must be incorporated in the casting in subsequent times and which must therefore be preserved from undesirable corrosion phenomena;

## FEATURES AND BENEFITS


The peculiar characteristics of MasterEmaco P 5000 AP are:

- complies with the principles defined in UNI EN 1504/9 ("Products and systems for the protection and repair of concrete structures: definitions, requirements, quality control and conformity assessment. General principles for the use of products and systems" ) such as the control of anodic areas, to methods such as:
  - painting the armature with coatings containing active ingredients, since it contains corrosion inhibitors;
  - painting the reinforcement with barrier coatings,

since it is impermeable to water and creates a naturally protective environment for the reinforcement bars thanks to the high pH;

- single-component: just add water to the product to be applied;
- the treated bars have a high resistance to extraction:> 80% compared to those not treated as indicated within the acceptance limits of UNI EN 1504/7;
- complies with the strict requirements of the German ZTV-Sib90-TL BE-PCC standards in terms of anti-corrosive coatings for armatures, also passing accelerated corrosion tests (DIN 50017, 50018 50021).

In compliance with the European Regulation (EU No 305/2011 and EU No. 574/2014) the product is provided with the CE marking according to UNI EN 1504-7 and the relative DoP (Declaration of Performance).

 1305
<b>EN 1504-7</b>
Reinforcement corrosion protection product for repair and protection of concrete to be used in buildings and engineering works
<b>R4 class</b>

## COVERAGE

Approximate theoretical coverage:

- as rebar inhibitor primer: 0.12 kg/m (on bar with diameter 12 mm);
- as render for MasterEmaco products: 2-3 kg/m<sup>2</sup>

## PACKAGING

2 kg plastic bucket.

## STORAGE

Store the product in a dry and sheltered place at a temperature anywhere between 5 and +35°C.

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Technical Information	
Ratio mixing	0.22-0.26 liter for kg (22-26%)
Consistency of mix	Thixotropic
Colour of mix	Orange
Temperature of application	From 5°C to 35°C
Pot life	60 minutes
Packaging	2 kg plastic bucklets
Consumption	As rebar inhibitor primer: 0.12 kg/m (on bar with diameter 12 mm); As render for MasterEmaco products: 2-3 kg/m <sup>2</sup>
Thickness	2 mm

## APPLICATION SHEET

### CLEANING REINFORCED BARS

The reinforcing bars, after being brought into the open, must be cleaned of the rust that surrounds them by sandblasting or using a wire brush.

### APPLICATION TEMPERATURE

MasterEmaco P 5000 AP may be applied at an ambient temperature anywhere between +5 °C and +35°C.

### PREPARING THE MIXTURE

Mix MasterEmaco P 5000 AP with water only in the ratio of 0.22 - 0.26 liters per kg of powder, mixing constantly with a whisk mounted on a drill at low speed. Continue mixing until a homogeneous and lump-free mixture is obtained. Leave the mixture to rest for about 5 minutes and then mix again. The mixture remains workable for about 60 minutes at 20 ° C.

### APPLICATION

MasterEmaco P 5000 AP must be applied by brush immediately after removing the rust; the application is carried out in a single coat with a medium hard brush until a thickness of about 2 mm is reached along the entire length of the bar. With the passivator applied not yet hardened, apply the subsequent MasterEmaco restoration mortar fresh on fresh.

Any limited application on the concrete substrate does not compromise the adhesion of the subsequent repair mortar.

## SAFETY INSTRUCTION

For information on the correct and safe use, transport, storage and disposal of the product, consult the most recent Safety Data Sheet.

## OTHER SERVICES

For price analysis, specifications, supplementary brochures, references, reports and technical assistance, visit the website [www.master-builders-solutions.com/it-it](http://www.master-builders-solutions.com/it-it) or contact [infomac@mbcc-group.com](mailto:infomac@mbcc-group.com).

Scan the QR code to visit the product page and download the latest version of this datasheet.



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Since 16/12/1992, Master Builders Solutions Italia Spa has been operating under a Certified Quality System compliant with the UNI EN ISO 9001 Standard. Furthermore, the Environmental Management System is certified according to the UNI EN ISO 14001 Standard and the Safety Management System is certified according to the UNI ISO 45001 Standard.

**Master Builders Solutions Italia Spa**

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For further information, please consult the local Technician of Master Builders Solutions. The technical advice on how to use our products, either written or verbally given, are based on the current state of our scientific and practical expertise, and does not imply the assumption of any guarantee and/or responsibility for the final results of works executed using our products.

Therefore, the customer is not exempted from the exclusive task and responsibility of verifying the suitability of our products for the intended use and purposes.

This version supersedes all the previous ones.