



TECHNICAL DATA SHEET

1.6 MAINTENANCE AND REPAIR

► Rhona P-100

Cement anti-rust coating

2095 / Version 3 / 05-07-2023



DESCRIPTION

RHONA P-100 is an effective anti-corrosion coating with cement base especially indicated for protecting concrete reinforcement. R2 classification pursuant to UNE standard EN 1504-3:2006.

PROPERTIES

- Passivating and anti-rust effect.
- Fibre product
- Easy to apply.
- Can be applied in a wide range of thicknesses.
- Impact strength.
- Excellent adhesion.
- Low retraction
- Waterproof product.
- Permeable to water vapour.

USES

RHONA P-100 is indicated for protecting reinforcements against corrosion and/or as an anti-corrosive coating for reinforcements embedded in concrete. Adhesive bond on concrete before applying repair mortars. Ideal product for use on cement surfaces, concrete, mortar, fibre cement, reinforced structures, traditional paint and typical masonry surfaces that have a certain degree of absorption, with the exception of plaster and cast plaster.

TECHNICAL DATA

Appearance	Red coloured powder.
Finish	Textured.
Mixed mortar density (Kg/L)	1.75
% Mixing water	25 - 30
pH	12.5 - 13.5
Shore Hardness	85
Useful life of mixture	90 min
Drying time (2 mm thickness and 20°C)	Concrete: 7 - 8 h Paint: 7 - 8 h
Resistance to compression (UNE -EN 13892-2:2003) N/mm²	15
Determination of chloride content (UNE-EN -1015) %	0.05
Determination of shrinkage and expansion (UNE-EN 12617-4:2002) Mpa.	0.8
Determination of resistance to carbonation (UNE-EN 13295-2005)	Dk < control concrete type MC (0.45)
Determination of adhesion by direct traction, UNE-EN 1542:1999 (N/mm²)	0.8
Maximum thickness per layer	10 mm
Usage	As plastering: 1,5 – 1,9 Kg/m ² /mm thick Coverage of a 12 mm thick bar: 200 g/m linear
Cleaning of utensils and stains	With water before drying. If the product hardens, it can only be removed mechanically.

SURFACE AND AMBIENT CONDITIONS

AMBIENT TEMPERATURE:

Never apply below 5°C or above 30°C

AMBIENT CONDITIONS:

The paint should not be applied under conditions of excessive sunlight, strong winds, or if rain is forecast.



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SURFACE PREPARATION

UNPAINTED SURFACES:

New unpainted surfaces:

- Before applying the product, all deteriorated areas of concrete around the reinforcements must be removed until healthy concrete is reached with $\text{ph} > 10$. Subsequently, the reinforcements will be cleaned by removing the rust by brushing, sandblasting or high pressure water in order to ensure perfect adhesion between the RHONA P-100 and the steel.

POSSIBLE APPLICATION SYSTEMS

Once all the reinforcements have been repaired, apply the first layer of RHONA P-100, completely covering the reinforcement. The second layer is to be applied quickly, as soon as the first layer has dried. Surfaces coated with RHONA P-100 should be protected against excessively fast evaporation. Structural repair mortars can be applied as soon as the Rhona P-100 has hardened and in any case no more than 48 hour later. Surfaces coated with this product should be protected against excessively fast evaporation.

FINISH RHONA P-100:

- Yield: 1.5-1.9 kg/m²/mm
- Coats:

SAFETY

Consult the current safety data sheet for safe handling (Section 8.2). Unsuitable for children. Keep out of the reach of children. Do not place painted surfaces into the mouth.

REMOVAL

Consult the current safety data sheet for safe handling (Section 8.2). Unsuitable for children. Keep out of the reach of children. Do not place painted surfaces into the mouth.

STORAGE

See storage conditions indicated in section 7.2 of the current safety data sheet. Store the containers away from high temperatures, direct exposure to the sun and frost. Maximum recommended storage time: 12 months from manufacture in fully sealed original container, indoors and at temperatures between 5° and 35° C.

LEGAL TEXT NOTE

This information and, in particular, the recommendations regarding the application and final use of the product, are given in good faith, based on the current knowledge and experience of Isaval Paints of the products when they are properly stored, handled and applied, in normal situations, within its useful life, according to the recommendations of Pinturas Isaval. In practice, the possible differences in the materials, supports and actual conditions at the place of application are such that it cannot be inferred from the information in this document, no any other written recommendation, neither any advice offered, will insure the guarantee in terms of marketing or suitability for particular purposes, neither any obligation outside of any legal relationship that may exist. The user of the products must carry out the tests to verify their suitability according to the use they want to give. Pinturas Isaval reserves the right to change the specifications of its products. The property rights of third parties must be respected. All orders are accepted according to the terms of our current General Conditions of Sale and Supply. Users should know and use the latest and updated version of the local Product Data Sheets, a copy of which will be sent to whoever requests them, or can also be obtained on the page "www.isaval.es". Data on this Sheet are based on laboratory tests. The measures taken "on site" may vary due to circumstances beyond our control.