



## TECHNICAL DATA SHEET

### 9.3 CEMENT FLOORS.

#### ► Rhona MA-570

Cement, self-leveling mortar CT-C40-F10-A15

2345 / Version 4 / 14-02-2024



## DESCRIPTION

Cement mortar modified with polymers used for regulating, restoring and levelling interior and exterior floors applicable in large thicknesses and where great resistances are required both in terms of flexion and compression. RHONA MA-570 consists of a cement mixture composed of abrasion resistant aggregates, modified with polymers and fluidifying agents. Respond all the requirements established in the "GREEN BUILDING", offering the highest possible score for BREEAM and / or LEED certifications.

## PROPERTIES

- Interior and exterior application.
- It can be applied both manually and by pumping.
- Indispensable for work requiring a quick finish.
- Low retraction
- Good flexibility and surface hardness.
- Very high fluidity product
- Fast application due to its excellent fluidity and cohesion.
- Good manageability and levelling of the joints during its useful life
- Capacity for levelling uneven surfaces from 3 mm to 40 mm.
- Capacity to withstand heavy traffic after being sealed with an epoxy or polyurethane resin.
- CLASSIFICATION: CT-C40-F10-A15

## USES

RHONA MA-570 is indicated for levelling of substrates in which high traffic conditions are required (heavy traffic) as long as it is covered with a polyurethane or epoxy type paint. Indicated for restoration products. Product suitable for medium to heavy surface loads. Levelling of multi-purpose floors to level and smooth concrete coatings at thicknesses of between 3 and 40 mm in a single application coat.

## TECHNICAL DATA

<b>Appearance</b>	Powder grey
<b>Finish</b>	Smooth
<b>Fresh density (Kg/L)</b>	2.15
<b>% Mixing water</b>	21 - 24
<b>pH</b>	12.5 - 13.5
<b>Useful life of mixture (min)</b>	60 - 90
<b>Resistance to bending (UNE -EN 13892-2:2003) N/mm<sup>2</sup></b>	10
<b>Resistance to compression (UNE -EN 13892-2:2003) N/mm<sup>2</sup></b>	40
<b>Levelling properties (mm)</b>	Immediate: 160 mm After 15 min: 156 mm
<b>Böhme Abrasion (UNE-EN 13892) cm<sup>2</sup>/50cm<sup>2</sup></b>	< 15 cm <sup>2</sup> /50 cm <sup>2</sup>
<b>Maximum thickness per layer</b>	40 mm
<b>Adhesion to concrete substrate (MPa)</b>	> 2.0
<b>Usage</b>	1.5 - 1.7 kg/m <sup>2</sup> /mm
<b>Cleaning of utensils and stains</b>	With water before drying. If the product hardens, it can only be removed mechanically.
<b>Minimum thickness per layer</b>	3 mm

## HOW TO APPLY

- Do not try to re-form the product once it has started to set. Re-mixing the product causes its setting curve to rupture and reduces its properties, which means that defects may appear after application.
- The possible movements or cracks of the substrate can be traced on the surface of the product to be applied. Therefore, it should not be applied to asphalt surfaces or on floors with high levels.



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## SURFACE AND AMBIENT CONDITIONS

### AMBIENT TEMPERATURE:

Must be equal to or higher than 10°C. In the case of temperatures above 25°C and to avoid quick drying, protect the cement from direct sunlight and/or dry air during its application and initial curing.

### SURFACE TEMPERATURE:

Minimum 5°C

### SURFACE HUMIDITY:

Must not be used on exterior surfaces or surfaces where there is usually moisture.

### AMBIENT CONDITIONS:

Protect from frost during the 48 hours following its instalment.

## SURFACE PREPARATION

### UNPAINTED SURFACES:

#### New unpainted surfaces:

- Adequate floor preparation is essential before applying the product. At all times the compression strength of the support must be greater than 25 N/mm<sup>2</sup> and the tensile strength must not be less than 1,5 N/mm<sup>2</sup>. New concrete floors must have a minimum life of 21 days and at the same time be free of wax, grease, dust, cement, paint, grout, or any other material that may alter the adhesion of the product. The excess of grout must be eliminated by shot-blasting followed by the corresponding washing and vacuuming to remove the dust. Old concrete in which deep contamination is present must be treated by mechanical methods such as sand-blasting, bush-hammering or a wire brush to achieve an adequate clean surface. Cracks and holes are repaired with the recommended ISAVAL products for that purpose. The surface, once cleaned, must be primed to prevent the release of air through concrete that may form bubbles on the surface of the self-levelling mortar. In addition, the primer facilitates the adhesion of the product on the substrate. During the use of the primer, the formation of puddles should be avoided at all times. In the case of excessively porous substrates and/or in hot climates, the surface to be treated must be soaked with water before applying the primer.

## POSSIBLE APPLICATION SYSTEMS

For correct application of Rhona MA-510 the mixing material should be poured onto the primed substrate and spread using metal trowels until the required thickness is achieved. Immediately after spreading, apply a bristle roller to eliminate any air occluded in the material and trowel marks. Do not overwork the material with the roller and do not touch up with the trowel on the floor when it is hardening. The required thickness should be obtained in a single application. Better results will be achieved by carrying out the process without stopping.

### PRIMERS:

- Rhona A-200: adhesive bond for new mortar on old. Yield: 0.1 - 0.2 kg/m<sup>2</sup>. Coats: 1

### FINISH RHONA MA-570:

- Yield: 1.5 - 1.7 kg/m<sup>2</sup>/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

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## 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.