



TECHNICAL DATA SHEET

9.3 CEMENT FLOORS.

► Rhona MA-510

Cement, self-leveling mortar CT-C20-F6-A22

2153 / Version 4 / 14-02-2024



DESCRIPTION

Self-levelling cement modified with polymers for industrial use and use on areas with medium traffic. Interior/exterior use. RHONA MA-510 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

- Quick application and curing, providing reduced downtimes.
- It allows early pedestrian traffic and the application of coatings to provide additional mechanical or chemical protection.
- It can be applied directly on concrete
- Great dimensional stability, making it suitable for executing large surfaces without joins.
- It can be applied both manually and by pumping.
- Permeable to water vapour.
- Self-levelling and resistant to forklift traffic.
- Interior/exterior use.
- Classification: CTC20F6A22

USES

RHONA MA-510 is indicated for levelling in thicknesses of up to 35 mm. Refurbishment of floors of indoor and outdoor car parks with moderate traffic. Regularisation layer for finishes with resin systems or paint for floors. Screed coat for slabs and cement coatings.

TECHNICAL DATA

Appearance	Powder grey
Finish	Smooth
Fresh density (Kg/L)	2.15
% Mixing water	20 - 25
pH	12.5 - 13.5
Useful life of mixture (min)	30 - 45
Resistance to bending (UNE -EN 13892-2:2003) N/mm ²	5
Resistance to compression (UNE -EN 13892-2:2003) N/mm ²	20
Adhesion to concrete substrate (MPa)	2.5
Böhme Abrasion (UNE-EN 13892) cm ² /50cm ²	< 22 cm ² /50 cm ²
Minimum thickness per layer	3 mm
Maximum thickness per layer	35 mm
Usage	1.5 - 1.7 kg/m ² /mm
Drying time (20°C).	48 h
Cleaning of utensils and stains	With water before drying. If the product hardens, it can only be removed mechanically.

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/mm² and the tensile strength must not be less than 1,5 N/mm². 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/m². Coats: 1

FINISH RHONA MA-510:

- Yield: 1.5 - 1.7 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.

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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.