



# TECHNICAL DATA SHEET

## 1.1 PROTECTION AND FINISHING



### ► Caoval

Lime paint

2299 / Version 7 / 26-10-2021



## DESCRIPTION

Organic wall paint based on aerial lime and selected aggregates for interior or exterior use, mineral matt appearance, high breathability and protective characteristics against microbiological attacks. Indicated for conservation work and restoration of the appearance of surfaces of great historical value. Respond all the requirements established in the "GREEN BUILDING", offering the highest possible score for BREEAM and / or LEED certifications.

## PROPERTIES

- High opacity.
- Extraordinary whiteness.
- No splattering.
- Does not yellow.
- Highly permeable to water vapour
- 100% natural and organic origin.
- Good adhesion to common construction materials.
- Offers healthy spaces.
- Resistant to microbiological attacks.

## USES

Especially suitable for indoor and outdoor use on buildings where a mineral finish is required, on lime plaster, cement-lime, plasterboard and plaster. It is also recommended for conservation and recovery works on farms, monuments, historic centres and cultural or heritage buildings in which respect for traditional finishes and high breathability are required.

## TECHNICAL DATA

<b>Appearance</b>	Profound matt.
<b>Colour</b>	White and Caoval colour chart
<b>Thinner</b>	Do not dilute, apply to the use.
<b>pH</b>	12.95-13.05
<b>Viscosity (Brookfield RVT at 20°C). Poises</b>	120-150
<b>Density a 20°C (Kg/l)</b>	1.37-1.46
<b>Content in solids % volume</b>	40
<b>Determination of adhesion by direct traction, UNE-EN 1542:1999 (N/mm2)</b>	>0.8
<b>Liquid water permeability (UNE-EN 1062-3:2008 ) (Kg/m2h0.5)</b>	0.09
<b>Water vapour permeability (EN 1015-19)</b>	Class 1
<b>Yield (m<sup>2</sup>/L):</b>	7 to 10. Always depending on the porosity and absorption of the background on which it is applied.
<b>Touch dry (20°C) (min)</b>	30
<b>Second coat (hours)</b>	3-4
<b>Total drying (days)</b>	15 to 20
<b>Cleaning of utensils and stains</b>	Water.
<b>Volatile Organic Compounds (COV).</b>	Maximum product content 0,100 g/l,

## HOW TO APPLY

- Stir the product until totally smooth.
- The surfaces to be painted must be clean, dry and free of dust, grease, saltpetre, etc.
- If not, the surface must be cleaned properly and prepared with a coat of appropriate fixer.
- If the surface is already painted, ensure the previous paint is in good condition and well-adhered.



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## SURFACE AND AMBIENT CONDITIONS

### AMBIENT TEMPERATURE:

Do not paint at a temperature of below 7°C .

### RELATIVE HUMIDITY:

Never apply with relative humidity exceeding 80%.

### AMBIENT CONDITIONS:

It is not recommended to paint in rainy weather or at times of peak heat.

## SURFACE PREPARATION

### UNPAINTED SURFACES:

#### Concrete:

- Wait until completely set (min. 30 days).
- Removal of stripping substances
- Regulate high porosity by applying a coat of fixer (See possible application systems).

#### Plaster/Cast plaster:

- Elimination of efflorescence and alkalinity by treating with DILUTED ZINC SULPHATE. Regulate absorption by applying a suitable fixer/primer (See possible application systems)

#### Cement mortar:

- Regulate high porosity by applying a coat of fixer (See possible application systems).
- Elimination of efflorescence and alkalinity by treating with DILUTED ZINC SULPHATE. Regulate absorption by applying a suitable fixer/primer (See possible application systems)

#### Fibre cement:

- Eliminate high alkalinity and regulate absorption by applying a suitable fixer/primer (See possible application systems)

### PRE-PAINTED SURFACES IN GOOD CONDITION:

#### Pre-painted surface in good condition:

- Regardless of the support to be repainted, its appearance must be homogenised; in other words, adjust the surfaces that are shiny to help to open the pores and foster adhesion. Check the adhesion and resistance of the paint. Correct any texture or planimetry differences that may exist with RHONA repair mortars. Test compatibility between coats.

### PRE-PAINTED SURFACES IN POOR CONDITION:

#### Brittle:

- If the paint is old or badly adhered with defects such as chalking, blistering, peeling, cracking, etc., it must be completely removed and then apply a coat of transparent acrylic fixer. (see possible application systems)
- Regardless of the support to be repainted, its appearance must be homogenised; in other words, adjust the surfaces that are shiny to help to open the pores and foster adhesion. Check the adhesion and resistance of the paint. Correct any texture or planimetry differences that may exist with RHONA repair mortars. Test compatibility between coats.

#### Diseased:

- Surfaces with mould and algae: Removal and disinfection of mould or algae by vigorously rubbing the stain with a brush using household bleach or 10 volume hydrogen peroxide. It is finished with two finishing coats with anti-mould preservative for film protection.
- Elimination of efflorescence and alkalinity by treating with DILUTED ZINC SULPHATE.
- Surfaces with metal salts: These, coming from the slabs, are reddish or yellowish in colour; they must be covered with two coats of suitable anti-stain paint and then painted as normal.

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## POSSIBLE APPLICATION SYSTEMS

Use a brush or roller for normal manual application of Caoval. At least two top coats are recommended. Prior to the top coat and depending on the wall apply primer suitable for the yield specified in each case.

### PRIMERS:

- Fixacril Solvent-based acrylic fixer: Non-consolidated absorbent surfaces:Yield:Concrete: 15-20 m<sup>2</sup>/L.Cement mortars: 10-15 m<sup>2</sup>/L.Fibre cement: 10 - 15 m<sup>2</sup>/L.Plaster/Cast plaster: 5 - 15 m<sup>2</sup>/L.Painted surfaces: 15 - 20 m<sup>2</sup>/L. Coats: 1
- Fixenol siloxane acqua fixer: indicated for fixing, consolidating and sealing mineral substrates (cement mortar, concrete, Catalan tile, etc.)Yield:Concrete: 15-20 m<sup>2</sup>/L.Cement mortars: 10-15 m<sup>2</sup>/L.Fibre cement: 10 - 15 m<sup>2</sup>/L.Plaster/Cast plaster: 5 - 15 m<sup>2</sup>/L.Painted surfaces: 15 - 20 m<sup>2</sup>/L. Coats: 1
- Siltop concentrate Fixer diluent: fixing and consolidation of mineral surfaces where mineral finishes are required.Undiluted product yield: 3 - 5 m<sup>2</sup>/L. Coats: 1

### FINISH CAOVAL:

- Yield: 7-10 m<sup>2</sup>/L y mano
- Coats: 2

## 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

Take the necessary measures to ensure waste is kept to an absolute minimum. Analyse all possible methods for reuse or recycling, in line with the local and national legislation in force. Take the necessary measures to ensure waste is kept to an absolute minimum. Analyse all possible methods for reuse or recycling. Do not pour down drains or into the environment. Dispose of the product at an authorised waste disposal site or through an authorised waste management company. Waste must be handled, stored and disposed of pursuant to current local/national legislation.

## 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.