

# FASSIL P 313

## DATA SHEET

Smooth water-based silicate mineral paint  
for exteriors and interiors



Interior/Exterior



Plastic containers



Roller



Brush



## Composition

FASSIL P 313 is a water-based paint made from stabilised hydrophobic potassium silicate and special water-based organic binders with very high breathability, graded aggregates, titanium dioxide and specific additives to improve applicability and workability.

## Supply

- Containers of approx. 5 and 14 l
- Tints: a selection from our 365 A YEAR OF COLORS swatchbook

## Use

FASSIL P 313 is used as a protective and decorative, white and coloured paint on exterior and interior finish coat plasters.  
The nature of the raw materials used ensures suitable protection of the base coat maintaining the breathability of the masonry.

## Substrate preparation

The surface being painted must be dry and free from dust, dirt, etc. Any traces of oils, fats, waxes, etc. must be removed beforehand.

Before applying FASSIL P 313 paint, wait at least 28 days after application of the finish coat plaster.

Before applying the paint, it is always recommended to apply FASSIL F 328 silicate primer, with average dilution in water 1:1, to ensure a uniform colour and low sheen.

The silicate coating cycle must NEVER be applied on old paint, as the chemical reaction involving adhesion to the surface through the formation of calcium silicate will not occur, and consequently the silicate paint may detach.

## Application

Dilution of FASSIL P 313 by weight with water: first coat up to 30%, second coat up to 20%, if applied by brush. Apply the 2 coats in opposite directions at least 8 hours apart.

The product can be applied by brush or wool roller (preferably short-napped). Application by brush is recommended so as to avoid possible roller marks.

## Warnings

- Product recommended for expert users.
- Always consult the safety data sheet before use.
- Wear protective gloves and garments, and in the event of contact with the skin wash with plenty of water and soap.
- During use, ventilate the room well and use water to clean tools.
- The recipient/product must be disposed of in accordance with national laws.
- Acquire all the material required to finish the work of the same batch.
- Avoid application at temperatures below +5°C or above +30°C and with a relative humidity higher than 75%. Otherwise the chemical reaction involving the formation of calcium silicate will be inhibited, causing the material to detach or the formation of more or less visible stains, if coloured products are applied.
- Avoid application on surfaces in full sunlight or with strong winds.
- Due to the chemical nature of silicate-based products, prolonged storage of the tinted product can lead to a possible loss of gloss and/or colour changes. After adding the colourants, it is recommended to apply the product within 15 days.
- Only apply FASSIL P 313 on cured and dry plaster, so as to assist the silicatization mechanism.
- Do not apply FASSIL P 313 on surfaces that have previously been painted with synthetic products.
- Exterior façades coated with with FASSIL P 313, during application and on the days after drying, must be protected against rain or other precipitation and high relative humidity in the atmosphere (fog) to prevent phenomena such as "streaking", washing away, stains, colour alterations, etc.
- Protect any surfaces not to be treated (such as glass, window frames, ceramics, natural stones, furniture, etc.) using suitable covers, to avoid irreversible staining. Any splashes of product must be immediately removed with water.
- Medium/dark tints may in certain cases show alterations in the colour tone due to the characteristics of mineral-based paints.
- Incorrect dilution of the material will affect product workability and cause a decline in its technical characteristics.
- The wet scrub resistance test, as reported in the technical data, does not take into consideration any alterations in appearance, such as the formation of stains or glossier areas, and does not measure the ease of dirt removal, i.e. the paint's washability. As a consequence, FASSIL P 313 does not resist surface abrasive stress without causing alterations to the appearance.
- The level of gloss obtained depends on the conditions and the nature of the substrate, the colour of the product and the tool used for application.
- Additional note regarding the product packaged in recycled plastic packaging, easily recognisable by the grey colour. The variability of the raw materials making up this type of packaging may mean that the mechanical strength and colour of the packaging is inconsistent. Therefore, pay the utmost care when transporting and handling the product. Store protected from frost and direct sunlight, at a temperature between +5°C and +35°C.
- The images and illustrations are purely indicative. The characteristics and qualities of the product specified on the datasheet remain unchanged, regardless of the external appearance of the container.
- The information provided on this technical datasheet is based on our technical and practical knowledge and experience. The technical data refer to the average characteristics of the basic product and are determined under controlled laboratory conditions. The variability of the natural raw materials available on the market and the tinting of the product can lead to slight deviations in the declared values, in the colour and in the aesthetic effects obtained. It is therefore necessary for the purchaser/user to personally verify, before application, the suitability of the product for the intended use, in particular when different lots of the same material are used in the same job/site (this is however not recommended as per point 6 of these warnings).

**FASSIL P 313 must only be used in its original state, without the addition of other materials, except for dilution with water.**

## Storage

Protect from frost. Store at temperatures above +5°C and below +30°C. If stored in a cool, dry place, away from sources of heat and sheltered from sunlight, in its sealed original packaging, the product has a shelf life of 12 months. Once the product has expired, it must be disposed of in accordance with the current legislation.

## Quality

FASSIL P 313 is subjected to careful and constant testing in our laboratories. The raw materials used are rigorously selected and controlled.



## Technical Data

Specific weight (EN ISO 2811-1)	1.42-1.52 kg/l
Yield (**)	approx. 3.5-4.5 m <sup>2</sup> /l for finished work (2 layers)
Consumption (**)	approx. 160-200 g/m <sup>2</sup> (0.11-0.14 l/m <sup>2</sup> ) per layer
<b>Classification EN 13300</b>	
Grading (EN ISO 1524)	Class S1, fine (S < 100 µm)
Wet-scrub resistance (EN ISO 11998)	Class 2
Gloss (EN ISO 2813)	Classe G4, dead flat (< 5 GU at 85°)
Hiding power (EN ISO 6504-3)	Class 1 (with a yield of 4 m <sup>2</sup> /l)
<b>Classification EN 1062-1</b>	
Gloss (EN ISO 2813)	Class G3, matt (≤ 10 GU at 85°)
Dry film thickness (EN 1062-1)	Class E2 at an average consumption of 0.16 l/m <sup>2</sup> (50 µm < E ≤ 100 µm)
Grading (EN ISO 1524)	Class S1, fine (S < 100 µm)
Water vapour transmission rate (EN ISO 7783)	Class V1, high (Sd < 0.14 m)
Liquid water permeability (EN 1062-3)	Class W2, medium (0.1 kg/m <sup>2</sup> ·h <sup>1/2</sup> < W ≤ 0.5 kg/m <sup>2</sup> ·h <sup>1/2</sup> )
Crack bridging (EN 1062-7)	Class A0 (not pertinent)
Permeability to CO <sub>2</sub>	Class C0 (not pertinent)
(**) The consumption and yield values refer to the white product applied on smooth substrates of average absorbance; these should be verified by preliminary tests on the specific substrate, in relation to the chosen colour.	
EU limit value of VOC content (Directive 2004/42/EC)	Cat. A/a, WB: Max VOC 30 g/l product VOC < 30 g/l
* Product emissions rating in accordance with French Republic decree of 19 April 2011	Product emissions rating white version: class A +

The above information refers to laboratory testing; it is possible that in practical applications on site these may differ considerably according to the conditions in which the material is applied. In any case the user must check that the product is suitable for the intended application, taking all responsibility for its use. Fassa reserves the right to make technical modifications without notice.

Technical specifications regarding the use of Fassa Bortolo products for structural or fire prevention applications will only be officially valid if provided by Fassa Bortolo's "Technical Service" and "Research, Development and Quality System". If necessary, contact Technical Service in your country of reference (IT: [area.technica@fassabortolo.com](mailto:area.technica@fassabortolo.com), ES: [asistencia.technica@fassabortolo.com](mailto:asistencia.technica@fassabortolo.com), PT: [assistencia.technica@fassabortolo.com](mailto:assistencia.technica@fassabortolo.com), FR: [bureau.technique@fassabortolo.fr](mailto:bureau.technique@fassabortolo.fr), UK: [technical.assistance@fassabortolo.com](mailto:technical.assistance@fassabortolo.com)).

Please note that for the aforementioned products, the assessment is required by the appointed professional, in accordance with regulations in force.