



TECHNICAL DATA SHEET

1.1 PROTECTION AND FINISHING



► Bixolan

Silicone resin

1285 / Version 6 / 04-03-2025



DESCRIPTION

Exterior coating made from maximum quality silicone resin for decorating and waterproofing façades. Allows breathability of the surface. Complies with UNE-EN 1504-2 standard for products and systems for the protection and repair of concrete structures.

PROPERTIES

- Water-repellent and rainwater-proof.
- Water vapour-permeable, allowing transpiration of the support.
- Resistant to the negative effects of weathering.
- Due to the pearlescent effect it is self-cleaned with rainwater.
- Effective non-carbonating barrier due to its high resistance to CO₂ diffusion.
- Resistant to the alkalinity of the surface, such as cement mortars, concrete, brick, etc.
- With anti-mould paint preservative for film, avoids the appearance of fungus and algae spots on its surface.
- Good adhesion to common construction materials.
- Re-coatable.
- High opacity.
- Classification pursuant to NF T 36005 and NF T 30808: Family I Class 10c
- Classification pursuant to NF DTU 59.1: D2
- Classification pursuant to NF EN 1062-1: E3 V1 W3 A0

USES

Especially designed to prevent the harmful effects caused by damp on north/north-west facing walls or in very damp areas. Its water-repellent properties are combined with high permeability to water vapour, which allows the wall to "breathe", thus avoiding the formation of blistering and detachment of the paint. This coating is ideal for restoring and renovating façades coated with mortar, single-layer mortar, brick and concrete as well as any façades which were previously painted.

TECHNICAL DATA

Appearance	Mineral matt.
Colour	White and colours from the Esencia and Coloritud charts.
Thinner	Water.
Viscosity (Brookfield RVT at 20°C). Poises	200-250
Density at 20°C (Kg/L)	1.56 ± 0.05
Content in solids % volume	45.5
Liquid water permeability (UNE-EN 1062-3:2008) (Kg/m ² h0.5)	0.08
Wet scrub resistance (UNE-EN ISO 11998)	Class 2
Accelerated ageing (EN 1062-11)	Unchanged.
Determination of adhesion by direct traction, UNE-EN 1542:1999 (N/mm ²)	1.3
Yield	8 - 12 m ² /l
Touch dry	60 min
Second coat	8 - 12 h
Total drying (days)	15 - 20
% brush or roller dilution	0 - 15
% spray gun dilution	10 - 25
Cleaning of utensils and stains	With water before drying.
Volatile Organic Compounds (COV).	Maximum product content 0,1 g/l



TECHNICAL DATA SHEET

1.1 PROTECTION AND FINISHING

► Bixolan

Silicone resin

1285 / Version 6 / 04-03-2025

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.

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:

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

1.1 PROTECTION AND FINISHING

► Bixolan

Silicone resin

1285 / Version 6 / 04-03-2025

SURFACE PREPARATION

UNPAINTED SURFACES:

Fibre cement:

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

Plaster/Cast plaster:

- Apply one coat of fixer/primer to create a foundation of resin, allowing breathability, reducing absorption and facilitating the subsequent application of paint. (See possible application systems)

Concrete:

- Wait until completely set (min. 30 days). Removal of stripping substances. Regulate absorption with the application of a suitable fixer/primer

Lime mortar:

- Regulate high porosity by applying a coat of fixer (See possible application systems).

Cement mortar:

- Elimination of efflorescence and alkalinity by treating with DILUTED ZINC SULPHATE.
- Regulate high porosity by applying a coat of fixer (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:

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.
- Surfaces with moisture: Fix building materials that are crumbling due to damp with a suitable fixer, creating a foundation for correct settlement on the subsequent application of two coats of product at the dilutions indicated in this data sheet.

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.

1.1 PROTECTION AND FINISHING

► Bixolan

Silicone resin

1285 / Version 6 / 04-03-2025

POSSIBLE APPLICATION SYSTEMS

Use a brush, roller or spray gun for normal application of Bixolan. 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 m²/L. Cement mortars: 10-15 m²/L. Fibre cement: 10 - 15 m²/L. Plaster/Cast plaster: 5 - 15 m²/L. Painted surfaces: 15 - 20 m²/L. Coats: 1
- Fixenol Consolidating primer: indicated for fixing, consolidating and sealing mineral substrates (cement mortar, concrete, Catalan tile, etc.) Yield: Concrete: 15-20 m²/L. Cement mortars: 10-15 m²/L. Fibre cement: 10 - 15 m²/L. Plaster/Cast plaster: 5 - 15 m²/L. Painted surfaces: 15 - 20 m²/L. Coats: 1
- Fixenol Pigmented: non-homogeneous surfaces (various materials, areas with different colours, repairs, etc.), where FIXENOL PIGMENTED is to be applied in the desired colour, in order to regularise the colour, absorption and appearance of the surface. Yield: 8 - 15 m²/L. Coats: 1
- Isacrílico Sealing emulsion: consolidating primer for porous surfaces. Undiluted product yield: Concrete. 30-60 m²/L. Cement mortars: 15-20 m²/L. Fibre cement: 15 - 25 m²/L. Plaster/Cast plaster: 10 - 15 m²/L. Painted surfaces: 15 - 40 m²/L. Coats: 1

FINISH BIXOLAN:

- Yield: 8 - 12 m²/l
- 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. All data in this document are based on laboratory tests conducted at 20°C and 1 atm pressure. Measurements taken "on-site" may vary due to circumstances beyond our control, such as changes in environmental conditions of pressure and temperature.