



TECHNICAL DATA SHEET

3.1 SOLVENT BASED



► Isal-lac Satin

High solids polyurethane lacquer enamel

1113 / Version 5 / 05-03-2025



DESCRIPTION

Polyurethane enamel-lacquer with high solids and high quality silky satin finish.

PROPERTIES

- Pleasant silky touch.
- Product with high solids content and low percentage of volatile organic compounds (VOC) complying with the limits set by European Directive 2004/42/EC for this product class.
- Easy to brush and level.
- Good drying.
- Provides lasting protection against chemical cleaning agents.
- Low tendency to yellow.
- Does not fall off or drip.
- Interior and exterior application.

USES

Especially designed for painting materials such as: steel, wood and all kinds of surfaces adequately sealed and primed.

TECHNICAL DATA

| | |
|---|---|
| Appearance | Silky satin. |
| Colour | White, black and Sistema Tintométrico Esencia colour chart. |
| Thinner | D-10. |
| Viscosity (Copa Ford No. 4). Seconds. | 250 - 350 |
| Density at 20°C (Kg/L) | 1.35 - 1.55 |
| Content in solids % volume | 64 - 65 |
| Fire Resistance classification (EN13501-1) | A2-s1-d0 |
| Yield | 13 - 16 m ² /l (40-50 microns per coat) |
| Drying powder (min) | 60 |
| Touch dry | 4 - 6 h |
| Second coat | 24 h |
| % maximum dilution | 0 - 5 |
| Volatile Organic Compounds (COV). | Maximum product content 286,50 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 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 5°C .

SURFACE TEMPERATURE:

It should be 2 - 3 °C above dew point when painting.

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.

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SURFACE PREPARATION

UNPAINTED SURFACES:

Iron and Steel:

- Remove any existing mill scale. Remove any rust or rusted material (by sandblasting or scraping and mechanical or manual brushing), until a rust-free surface remains. Apply 1 or 2 coats of anti-rust primer according to instructions given in the possible application systems.
- Paint using the normal procedure.

Wood:

- Removal of product residues and foreign substances.
- Sand and apply one or two coats of primer and leave to dry for a minimum of 48 hours.
- Paint using the normal procedure.

Concrete:

- Removal of product residues and foreign substances. Must be properly sanded and, after removing all dirt, apply a suitable base coat according to the table of possible painting systems and sand gently. Then apply two coats of finish, sanding gently between layers.
- Paint using the normal procedure.

Non-ferrous metals:

- Removal of product residues and foreign substances. Must be properly sanded and, after removing all dirt, apply a suitable base coat according to the table of possible painting systems and sand gently. Then apply two coats of finish, sanding gently between layers.
- Paint using the normal procedure.

PRE-PAINTED SURFACES IN GOOD CONDITION:

Iron and Steel:

- Clear oil or grease residue.
- Paint using the normal procedure.

Wood:

- Sand and apply one or two coats of primer and leave to dry for a minimum of 48 hours.
- Paint using the normal procedure.

PRE-PAINTED SURFACES IN POOR CONDITION:

Iron and Steel:

- If the enamel-coated surface is not in ideal condition, the existing enamel layer should be removed with PAINT STRIPPER.
- Remove any existing mill scale. Remove any rust or rusted material (by sandblasting or scraping and mechanical or manual brushing), until a rust-free surface remains. Apply 1 or 2 coats of anti-rust primer according to instructions given in the possible application systems.
- Paint using the normal procedure.

Concrete:

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

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POSSIBLE APPLICATION SYSTEMS

Use a brush, roller or spray gun for normal application of Isal-lac satin finish. As this is a product with a high number of solids it is very important not to apply thicknesses per layer higher than those recommended (40-50 microns dry) to avoid problems with slow drying and surface defects. Prior to the top coat and depending on the wall apply primer suitable for the yield specified in each case.

PRIMERS:

- Isalnox Primer: anti-rust protection for ferrous surfaces. Yield: 10 - 13 m²/L. Coats: 1
- Isalnox Multi-adhesive Primer: protection of rust-free metallic surfaces (steel, galvanised steel, aluminium, etc.), sealant for non-metallic surfaces (wood, gypsum, PVC, etc.) Yield: 10 - 12 m²/L. Coats: 1
- Sella Matt sealing paste: synthetic sealant for sealing and filling wood, plaster and/or cast plaster. Yield: 13 - 18 m²/L. Coats: 1
- Improxy HS Primer: high solids anti-corrosion synthetic primer with ultra-fast drying for the temporary maintenance of metal structures. Coverage: 4 - 8 m² / L in thicknesses of 40-50 microns.

FINISH ISAL-LAC SATINADO:

- Yield: 13 - 16 m²/l (40-50 micras secas)
- 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: 24 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.