



TECHNICAL DATA SHEET

1.1 PROTECTION AND FINISHING

► Silvel

Silicate glaze

1339 / Version 7 / 05-03-2025

c&e 

DESCRIPTION

Silicate based paint, prepared to obtain "glaze" effects in outdoor and indoor applications, contains potassium silicate as binders and organic stabilisers

PROPERTIES

- High-penetration thin particle, with excellent adherence on porous supports.
- Extremely high water vapour-permeability, allowing the surface to breathe
- Resistant to the negative effects of weathering.
- High opacity.
- Resistant to the alkalinity of the surface, such as cement mortars, concrete, brick, etc.
- Due to the high reflection of sunlight presented by potassium silicate (liquid glass) in the white paint and its microcrystalline structure, a certain amount of thermal insulation is provided by the reflection of the sun rays.
- Its composition complies with standard DIN 18363, paragraph 2.4.1.

USES

Especially suitable for obtaining a glaze effect by mixing Silvel with Siltop Concentrate until the desired effect is achieved.

TECHNICAL DATA

Appearance	Mineral matt.
Colour	White and colours from the Esencia and Coloritud charts.
Thinner	Siltop concentrate.
Viscosity (Brookfield RVT at 20°C). Poises	200 - 230
Density at 20°C (Kg/L)	1.45 ± 0.05
Content in solids % volume	37
Water vapour permeability (UNE-EN ISO 7783:2) (m)	0.06, high
Liquid water permeability (UNE-EN 1062-3:2008) (Kg/m²h0.5)	0.07, low
Accelerated ageing (EN 1062-11)	Unchanged
Yield (m²/L):	6 - 8
Drying at 20°C (min)	60
Second coat (hours)	3 - 4
Total drying (days)	15 - 20
Cleaning of utensils and stains	With water before drying.
Volatile Organic Compounds (COV).	Maximum product content 15,10 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.
- To avoid joints being visible on large panels, enough personnel should be used and the paint applied all at once.
- Glass that might be splashed must be protected because stains cannot be removed.
- Workers should protect themselves against splashes.

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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:

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

SURFACE PREPARATION

UNPAINTED SURFACES:

New plasters:

- Class P I c (lime mortar); Class P II (bastard, lime and cement mortar) and Class P III (cement mortar). They should be left unpainted for 2-4 weeks, depending on weather conditions, to get a good setting. Apply two coats of SILVEL, the first diluted at 15% with DILUENT SILTOP CONCENTRATE and the second diluted at 5% with the same diluent.

Plaster/Cast plaster:

- On bare interior walls, it can be applied as long as they are previously prepared by applying a layer of acrylic primer diluted with water. One printing part with four water parts. Without preparation, it should not be applied to plaster walls.

PRE-PAINTED SURFACES IN POOR CONDITION:

Old plasters of the previously mentioned classes:

- Wash with hydro pressure, then prepare the surface by applying an acrylic primer diluted with water. One printing part with four water parts.

Very absorbent and irregular plasters, degraded or aged plasters and old silicate paints well-adhered:

- First clean with medium pressure water of 120 bars. Once completely dry, apply DILUENT SILTOP CONCENTRATE mixed with water, at the rate of four parts of water with one part of DILUENT SILTOP CONCENTRATE with a yield of 5-10 m² / liter of pure product. Then finish with two coats of SILVEL. The first diluted 10 - 15% with DILUENT SILTOP CONCENTRATE and the second pure or diluted 5%. If water is used as a diluent, the final hardness of the paint will be much lower. The repainting interval between the three coats must be at least 24 hours in good weather conditions.

Supports previously painted with organic paints:

- These must be perfectly removed before painting.

POSSIBLE APPLICATION SYSTEMS

Use a brush, roller or spray gun for normal application of SILVEL. 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:

- Siltop concentrate Fixer diluent: fixing and consolidation of mineral surfaces where mineral finishes are required. Undiluted product yield: 3 - 5 m²/L. Coats: 1

FINISH SILVEL:

- Yield: 12 - 16 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.

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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, nor 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.