



# ard f.lli raccanello s.p.a.

## Industria vernici e smalti

TECHNICAL SHEET 452

CODE 1.622

### **silrest intonachino 0,5 mm**

Silicate mineral plaster

#### **GENERAL PROPERTIES**

SILREST INTONACHINO is a coating for interiors/exterior based on potassium silicate in solution, formulated in compliance with the VOB/C DIN 18363 2.4.6. regulation.

After application the soluble silicates react with the carbon dioxide from the air giving rise to colloidal hydrate silica which offers remarkable fixative powers. Silica reacts with the calcium salts of plaster producing calcium silicate, a mineral salt with physico-chemical characteristics similar to those found in construction materials.

The film free mineral nature offers optimum breathability and an excellent bond on mineral conglomerates without causing flaking or detachment. The inorganic nature offers a low thermoplasticity & consequent reduced dirt pick up.

SILREST INTONACHINO is a fibre reinforced coating which features an outstanding mechanical resistance in comparison to traditional silicate coatings.

#### **INSTRUCTIONS**

##### **Substrate preparation:**

**Bare walls:** ensure the substrate has weathered for at least 28 days in order to avoid an excessive superficial calcium alkalinity: which would impede the silicate from penetrating in depth therefore forming a crust destined to detach.

Remove dust, filth and any unsound parts. Ensure the wall is perfectly dry & apply a layer of silicate based sealer ISOREST 0.076. diluted from 100 to 200% in water volume according to substrate absorption.

Allow 24 hrs; apply 2 layers of SILREST INTONACHINO at an interval of at least 24-48 hrs according to the environmental temperature.

**Walls painted with old lime paintwork:** remove any unsound paintwork & efflorescence. Clean thoroughly & proceed as per bare surfaces.

**Walls with emulsion paintwork, non mineral & textured paints:** as the potassium silicate present in the product must react with the plaster, the same must be absolutely bare.

Any traces of previous finishes must be removed using the most appropriate means (sanding, scraping etc.) Clean thoroughly & proceed as per bare surfaces.

## Application:

- SILREST INTONACHINO is ready for use and does not require further dilution. Stir well until a homogeneous mixture is obtained and lay with a steel float. Once completely dry proceed with another layer. Before SILREST INTONACHINO starts to dry smooth the surface with a plastic or sponge float.
- Do not apply SILREST INTONACHINO on walls exposed to direct sunlight or with ambience temperature below + 10°C.
- Use protective eye wear during application After application outdoor surfaces must be protected against rain for at least 48 hrs. Wash equipment with water immediately after use.
- Mask any parts (windows, ceramic pavements, casings etc.) which are not to be treated.
- The product has a 2 year stability if stored in the original packaging at a temperature between + 8°C - + 30°C.
- Application on extensive surfaces should be carried out “wet on wet” in order to prevent shading.
- Walls with efflorescence or subject to rising damp must be restored before application in order to guarantee adhesion.
- When colour products from different batches are used, it is advisable to mix the same in order to avoid differences in shades.
- Use products in compliance with current Hygiene & Safety Regulations. Dispose of spent material/containers according to the same.
- Refer to the PSDS for further details.
- SILREST INTONACHINO is compatible with the 16Colours tinting systems.

## TECHNICAL PROPERTIES

NATURE OF BINDER	Inorganic		
COLOUR	White & tinting system hues		
MASS VOLUME	1600-1670 g/l		
DYNAMIC VISCOSITY	160.000 ± 180.000 cP		
UV RESISTANCE	Sup. 3 <sup>rd</sup> grade Grey scale		
ALKALI RESISTANCE	No structural/chromatic variation		
DRYING AT 20°C	TOUCH DRY		4 hrs
	THROUGH DRYING		48 hrs
PERMEABILITY (WATER VAPOUR)	EN ISO 7783-1 & 2	S <sub>d</sub>	0,041 m
		Class	V <sub>1</sub> (high)
CAPILLARY ABSORPTION & WATER PERMEABILITY	EN1062-3	w	0,351 kg/m <sup>2</sup> √t
		Class	W <sub>2</sub> (average)
ADHESION FOR DIRECT TRACTION	EN 1542	RESULT	Complies (adhesion ≥ 0,3 Mpa)
DURABILITY	EN 13687-3	RESULT	Complies (adhesion ≥ 0,3 Mpa)
THERMAL CONDUCTIVITY	EN 1745	λ <sub>10</sub> DRY [W/MK]	0,809
FLASH POINT	EN 13501-1		Class C
HAZARDOUS SUBSTANCES		RESULT	Complies

*In compliance with the UNI EN 15824 CE Marking*

## YIELD

Coverage may vary from 0,4 to 0,8 m<sup>2</sup>/kg according to the condition of the substrate & the thickness required.

## SPECIFICATIONS

### SILICATE MINERAL PLASTER

Application with a trowel followed by smoothing using a plastic or sponge float, on treated mineral surfaces of a pigmented plaster based on potassium silicate in solution, inert mineral fillers of various granulometry type SILREST INTONACHINO for a 0,5 mm thickness with a consumption which varies from 1,2 to 2,5 kg/m<sup>2</sup> according to the condition of the substrate & required thickness.

€/m<sup>2</sup>.

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This data herein were correct at the time of Quality Control & refer to standardized environmental conditions. The same are to be considered as a guide.

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