



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

## Industria vernici e smalti

TECHNICAL SHEET **152**

CODE 1.627

### **silrest intonachino 1mm**

Silicate mineral plaster

#### **GENERAL PROPERTIES**

SILREST INTONACHINO is a coating for interiors/exteriors based on potassium silicate in aqueous 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 SILREST INTONACHINO 1 mm.

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

**Walls with emulsion, non mineral & textured paintwork:** 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 1 mm is ready for use and does not require further dilution. Stir well until a homogeneous mixture is obtained and lay with a steel float. Before SILREST INTONACHINO begins to dry, smooth the surface with a plastic or sponge float.
- Do not apply SILREST INTONACHINO 1mm on walls exposed to direct sunlight or with ambience temperature below + 8°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 + 5°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.
- SIILREST INTONACHINO 1 mm is compatible with the 16COLOURS tinting systems.

---

## TECHNICAL PROPERTIES

NATURE OF BINDER				Inorganic
COLOUR				White & tinting system hues
MASS VOLUME				1700-1780 g/l
DYNAMIC VISCOSITY				140.000 ± 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>10DRY</sub> [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**

If applied correctly (without spilling) SILREST INTONACHINO 1 mm offers a yield of 0,5 m<sup>2</sup>/kg once perfectly dry.

**SPECIFICATIONS****SILICATE MINERAL PLASTER**

Trowel (plastic or steel) application - followed by smoothing with a plastic or sponge float - on pretreated surfaces of a pigmented plaster based on potassium silicate in aqueous solution, inert mineral fillers of various granulometries like SILREST INTONACHIO for a 1 mm thickness & 1,9 kg/m<sup>2</sup> consumption.

€/m<sup>2</sup>.

---

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.

*Revision 2013/01*



**ard - f.lli raccanello s.p.a. - industria vernici e smalti**

35129 PADOVA – Zona Ind.le Nord 1<sup>a</sup> Strada, 13 – Tel. 049.8060000 (5 linee)

Fax 049.773749 – [www.ard-raccanello.it](http://www.ard-raccanello.it) - E-mail: [ardspa@ard-raccanello.it](mailto:ardspa@ard-raccanello.it)