

# Accademia Intosil

Hydrophobic silicate mineral coating for exterior. CE-marked



Mod.51 Rev 64  
Last update 31/03/2020

## CHARACTERISTICS:

**ACCADEMIA INTOSIL** is a ready to use mineral coating for the decorative protective finish of exteriors and interiors. **ACCADEMIA INTOSIL** is composed of stabilized hydrophobic inorganic potassium silicates, less than 5% special alkali resistant organic binders which improve the rheological characteristics of the product, mineral aggregates in selected and balanced particle size, inorganic lightfast pigments, treated with special additives which confer a high level of water repellency to the substrate, improve its physical and mechanical characteristics and guarantee an excellent degree of workability to the product.

The strong points of **ACCADEMIA INTOSIL** are:

- Excellent vapour permeability.
- High water repellency.
- Low dirt pick-up.
- Excellent resistance to chemical and atmospheric agents.
- Lightfast and resistant to UV-rays, it does not undergo substantial colour changes.
- Excellent bond with mineral substrates.
- Thanks to its alkaline nature, is it extremely resistant to mould, fungus, bacteria, and algae
- Compliant with DIN Standard 18363,2.4.6. for natural mineral coatings.

## USE:

Due to its special nature and composition **ACCADEMIA INTOSIL** is particularly suitable for the recovery and preservative restoration of historical buildings such as churches, palaces or villas, but it is also extensively used for the protection and decoration of modern buildings. After adequate surface preparation, **ACCADEMIA INTOSIL** can be applied on dehumidifying plaster, cement plaster, lime-cement plaster, skimcoats made with **INTOCHEM PLUS**, **INTOCHEM ETICS**, **INTOCHEM ETICS LIGHT**, **INTOCALCE**, eco-friendly thermal insulation systems, old mineral paints and coatings. On old synthetic paints and coatings, it will be necessary to remove them and restore the original substrate. **ACCADEMIA INTOSIL** is also suitable for solving problems with hairline cracks on plasters with such tendency, thanks to its water repellency and mineral nature which allow an expansion coefficient similar to that of the substrate.

## PREPARATION AND APPLICATION:

### Surface preparation:

Erect the scaffolding in order to allow for continuous application until architectural interruptions. Scrape and remove all parts that are not perfectly adherent to the substrate and might compromise application of the system.

**New surface:** remove any dust and dirt, make sure that there is no humidity or water infiltration and that the substrate is perfectly dry and cured in order to avoid appearance of stains. If the substrate is not perfectly solid and sound, consolidate the substrate first with 1 coat of **ACCADEMIA SILIK PRIMER** dilute with water in a 2:1 – 1:1 ratio.

**Renovation:** synthetic paints and coatings must be completely removed before application, in order to restore the porosity of the substrate and guarantee the adhesion of **ACCADEMIA INTOSIL**. Remove them mechanically or by using a paint remover. Make sure to remove any residue of paint remove which could compromise the adhesion of the subsequent application. Perform high pressure washing on the whole surface and sanitize it with **MUROSANO RISANANTE**. Let it act for at least 8 hours. On old deteriorated chalky substrates, on old mineral paints, apply 1 coat of **ACCADEMIA SILIK PRIMER** diluted 2:1 – 1:1 in order to consolidate the substrate and regulate absorption rate. Neutralize in advance any efflorescence and/or humidity infiltration with appropriate treatment. Rising damp should be treated with specific dehumidifying mortar **ARCADIA RISANANTE**. In case of cracks and micro-cracks, or widespread irregularities, first apply **INTOCALCE** or **INTOCHEM ETICS LIGHT** as a skimcoat and wait until the plaster is perfectly cured.

**Application:** On a dry, clean and solid substrate, apply 1 coat of **ACCADEMIA FASSADENFARBE** diluted with **ACCADEMIA SILIK PRIMER** and water in a 2:2:1 ratio as a basecoat. Apply by brush or roller in the same colour as the subsequent coat of **ACCADEMIA INTOSIL**. Wait until the surface is perfectly dry, then apply **ACCADEMIA INTOSIL** ready to use. Mix it well then apply it by stainless steel trowel on the full surface homogeneously, then trowel it with plastic trowel or sponge according to the effect desired. Keep the trowel clean during the application.

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## IMPORTANT NOTES:

- In case you need to further dilute the product, dilute it with ACCADEMIA SILIK PRIMER and not with water. Colorificio MP will not take responsibility for any issue that may arise from mixing the material with an excessive quantity of water.
- Before beginning application, make sure that the substrate is perfectly dry and cured and perfectly anchored. Surface must be free from dirt, oil, mould, fungus, bacteria, efflorescence or anything else that could compromise adhesion or the successful outcome of the job.
- Protect the containers from freezing (minimum + 5°C)
- Store in a cool, dry place. Do not expose to direct sunlight.
- The temperature of both the work environment and the background should be between + 8°C and + 35°. Relative humidity must not exceed 75%.
- Prevent drying of the product at temperatures of either work environment or background below + 5°C
- Do not use the product when there is the likelihood of rain, in direct sunlight, strong winds, or persistent fog.
- Protect the treated surfaces from driving rain for as long as necessary for the complete seasoning of the product.
- Arrange the scaffolds in such a way as to allow continuous application until architectural interruptions to avoid the formation of joints, overflows and colour differences.
- Obtain enough of the colour in a single batch to complete the job or at least to complete portions of work which do not draw attention to shade differences.
- Wash all tools with water immediately after use.
- Due to its highly alkaline nature, the product is irritant for the skin and eyes, avoid contact.

## TECHNICAL DATA:

<b>Consumption rate</b>	ACCADEMIA INTOSIL 0.8 mm: 1.3 –1.5 kg/m <sup>2</sup> per layer applied ACCADEMIA INTOSIL 1.2 mm: 2.2 kg/m <sup>2</sup> per layer applied
<b>Drying time at 20°C and 65% r.h.</b>	Touch dry 2 hours In depth 24-36 hours
<b>Grain size</b>	ACCADEMIA INTOSIL Fine: 0.8 mm ACCADEMIA INTOSIL Medium: 1.2 mm
<b>Thickness per coat</b>	ACCADEMIA INTOSIL 0.8 mm: 1–1.2 mm ACCADEMIA INTOSIL 1.2 mm: 1.2 – 1.6 mm
<b>Volume solids at 105%</b>	80%
<b>pH</b>	~11.2
<b>Liquid water permeability (UNI EN 1062-3:2008)</b>	W= 0.079 kg/(m <sup>2</sup> h <sup>0.5</sup> ) Class w3 low permeability
<b>Water vapour permeability (UNI EN ISO 7783-2:2001)</b>	Sd = 0.0276 m thickness 1.2 mm μ = 23 Class V1 = High permeability
<b>Bond strength by pull-off (UNI EN 1542)</b>	F <sub>h</sub> = 0.4 MPa
<b>Final aspect</b>	Matt rough
<b>Dilute with</b>	Accademia Silik Primer - water
<b>Packages</b>	20 kg
<b>Colours</b>	White, "Intonachini minerali", "I Colori del Colore".

## Emission limits of Volatile Organic Compounds (VOC) according to directive 2004/42/CE:

Classification: A/ c) "coatings for exterior walls of mineral substrate";  
Limit Phase II (from 01/01/ 2010): 40g/l  
VOC: 40 g/l (max).

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The above information has been obtained from scrupulously controlled tests, and represents our best and most recent knowledge. This information is provided for reference purposes only. It is not binding upon the manufacturer, and neither may it constitute grounds for any kind of complaint whatsoever associated with the use of the products described, also considering that the conditions of use are beyond our control.

Please refer to the relevant Safety Data Sheet.