



TECHNICAL DATA SHEET - ISORYX Inside Coating

Version 3, 24.10.2024

Active low-emission wall coating

For interior application

Advantages of ISORYX Reflection Barrier Technology:

- ✓ More pleasant indoor climate with reduced heating needs
- ✓ Regulates heat and cold through infrared reflection
- ✓ Ensures stable and comfortable indoor climate
- ✓ Has antibacterial properties
- ✓ Significantly reduces condensation formation
- ✓ Has VOC emission label A
- ✓ Ideal for ecological and energy-efficient renovations
- ✓ Naturally prevents mold formation
- ✓ Promotes CO2 savings
- ✓ 10-year warranty



THIS ORYX
is for
Inside

Product Description

ISORYX Inside is an interior coating according to DIN EN 13300, based on Reflection Barrier Technology.

The coating can be applied optionally with paint rollers, brushes, or with an airless sprayer. In combination with the appropriate primer, ISORYX Inside can be used on a variety of interior substrates.

Furthermore, the product is excellently suited for renovations on all substrates. Color selection is made using a color fan deck.

Technical advice available at: info@isoryx.com

ISORYX Inside dries quickly and is odorless, allowing application while the room is in use. Before application, the material must be mechanically stirred for at least 3 minutes. All adjacent components should be well covered and protected from splashes. Application should not be carried out in conditions of high humidity.

ISORYX Inside can be applied evenly with rollers, brushes, or paintbrushes. The material must not be mixed with other substances. For application with rollers, brushes, or paintbrushes, dilution with drinking water or ISORYX Primario of maximum 3% is recommended.

If you wish to apply the product with an airless sprayer, please request separate technical advice.

The object and ambient temperature during application should be between +5°C and +35°C. Provide shade in case of direct sunlight. The surface dries after approximately 30 minutes, complete drying occurs under normal conditions (+20°C/65% humidity) within approximately 24 hours per coating layer. Lower temperatures and higher humidity extend the drying time.

The substrate must be clean, dry, solid, and free from dust, loose particles, and release agents (e.g., formwork oil).

For absorbent substrates or plasterboard, priming with ISORYX Primario is required to consolidate the substrate and balance different absorption behaviors.

For metal, concrete, and plaster substrates, as well as stressed or bleeding surfaces, a different primer is recommended as a bonding bridge.

Highly absorbent surfaces such as stucco plaster, porous lightweight concrete, aerated concrete, or mineral insulating plasters typically require two coats with another ISORYX primer.

→ Please request consultation here.



To ensure the full effect of the ISORYX Reflection Barrier Technology, a dry film thickness of at least 0.40 mm is required. If ISORYX Inside is applied with roller or brush, two coats are typically necessary to achieve this thickness. When using colored ISORYX Inside, the first coat should be applied in white before applying the colored topcoat.

Before application, any construction defects or damage and their causes must be remedied! Mold must be properly removed beforehand.

Application Instructions for Smooth Surfaces

1. Prepare the Substrate

- Must be clean, dry, and solid
- Free from efflorescence, dust, loose particles
- Remove all separating agents (e.g., form oil)
- Fix structural defects beforehand

2. Apply Primer

- Select suitable ISORYX primer for substrate
- Request technical advice if uncertain
- Ensure even application

3. Initial Mixing

- Duration: minimum 3 minutes
- Use electric mixer
- Achieve creamy consistency

4. First Coat

- Apply white ISORYX Inside
- Use cross-coat technique
- Check layer thickness: minimum 0.2 mm
- Use thickness gauge for verification

5. Initial Drying

- Minimum 24 hours between coats
- Extend time if higher humidity
- Normal conditions: +20°C/65% humidity

6. Second Mixing

- Duration: minimum 3 minutes (critical!)
- Use electric mixer
- Achieve creamy consistency

7. Second Coat

- Apply ISORYX Inside (white or colored)
- Use cross-coat technique
- Minimum thickness: 0.2 mm
- Final rolling in one direction

8. Final Drying

- Minimum 24 hours for desired effect
- Adjust for temperature/humidity variations

Important Note: All drying times specified are based on normal conditions (+20°C/65% humidity). Lower temperatures and/or higher humidity levels will extend the drying time.

Working Steps for Rough Surfaces

Rough, textured, or highly absorbent surfaces can significantly increase material requirements. The exact consumption quantity should be determined by creating test areas.

When painting a rough wall, it is important that both the "peaks" and "valleys" are well covered and a minimum total thickness of 0.4 mm is achieved.

Ensure that the measuring comb is drawn across both the elevations (peaks) and depressions (valleys) of the surface. This will provide a more accurate measurement, as uneven surfaces can affect the coating thickness differently.

Consumption

Depending on the nature and absorbency of the substrate, consumption for smooth surfaces is approximately 0.50 L/m² for two coats.

Rough, textured, or highly absorbent surfaces can significantly increase material requirements.

Cleaning

Clean tools thoroughly with water after use. Dispose of empty containers properly for recycling.

Storage

Under dry, frost-free, and cool conditions, originally sealed containers can be stored for at least 12 months from the date of sale. Colored products should be processed within 3 months.

Customs Tariff Number

32099000

Primers for ISORYX Reflection-Barrier-Technology

- ISORYX Primario for absorbent substrates
- Additional primers available upon request. If uncertain, please request consultation

Technical Data

Property	Value
Environmental properties	Solvent-free, environmentally friendly, odorless
Water resistance	Water-repellent
Wet abrasion class	II
Coverage class	3 (at approx. 0.22 L/m ²)
Whiteness degree	L > 94.0
Gloss level	Matt (DIN 53778)
pH value	9.0 (± 1.0)
Density	1.15 g/cm ³ (± 0.10)
Water vapor permeability	SD value: 0.08 m (DIN ISO 7783-2)*
Capillary water absorption	> 1 kg/m ² h0.5 (DIN EN 1062-3)**
Reflection degree	> 90% (white coating)
Crack-filling capacity	Up to approx. 0.50 mm
Emission value ε_n	0.285 (at 5.5 to 23.3 μ m) 0.052 (at 1.9 to 3.1 μ m)

*At dry film thickness approx. 0.4 mm

**After 24 hours

Legal Information

The information contained in this document is based on our current technical knowledge and experience. Due to the numerous possible factors influencing the processing and application of our products, users are required to conduct their own tests and trials.

The information provided serves only as general guidelines. It does not constitute a legally binding guarantee of specific properties or suitability for a particular purpose.

Users are also responsible for observing existing proprietary rights and complying with applicable laws and regulations.

Unresolved construction defects may lead to warranty issues.

With the publication of this technical data sheet, all previous versions become invalid:

Date of previous version: 15.09.2024

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