

ISORYX®



ISORYX Outside Coating

Active Low-Emission Facade Coating
Exterior application

Advantages of ISORYX Reflection-Barrier-Technology:

- ✓ Brilliant facades through light reflection (IR and UV)
- ✓ Naturally preventive against algae and fungi
- ✓ Recommended for ecological, energy-efficient renovation
- ✓ Heat and cold regulating (infrared reflection)
- ✓ Improves facade longevity
- ✓ Ecological and mineral-based
- ✓ Perfect weather protection, dirt-repellent and rain-resistant
- ✓ Excellent water vapor diffusion capability
- ✓ Solvent-free, environmentally friendly and low-odor
- ✓ Hydrophobic
- ✓ CO₂ reduction
- ✓ 10-year warranty



Product description

ISORYX Outside is a facade coating according to DIN EN 13300, based on reflection barrier technology.

The coating can be applied either with paint rollers, brushes or an airless sprayer. In combination with the appropriate primer, ISORYX Outside can be used on a variety of substrates in outdoor areas.

In addition, ISORYX Outside is ideal for use in renovation work on all colour-bearing substrates, as well as on old and new insulated facades.

Technical advice at: info@isoryx.de

ISORYX Outside dries quickly and is odourless and must not be mixed with other materials.

Before use, the material must be mechanically stirred for at least 3 minutes. All adjacent components should be well covered and protected from splashes. The processing must not take place at high humidity.

ISORYX Outside can be applied evenly with rollers, brushes or paint brushes. The material must not be mixed with other substances. For application with rollers, brushes or paint brushes, we recommend diluting with drinking water or ISORYX Primario to a maximum of 3%.

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

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

Do not apply in direct sunlight, rain or high relative humidity.

The substrate must be clean, dry, firm and free from dust, loose particles and separating agents (e.g. mould oil).

For absorbent substrates or plasterboard, a primer coat with ISORYX Primario is required to strengthen the substrate and to compensate for different absorption behaviour.

For metal, concrete and gypsum substrates, as well as for surfaces that are subject to heavy loads or that can be penetrated, a different primer is recommended as a bonding bridge.

Highly absorbent surfaces such as stucco, porous lightweight concrete, aerated concrete or mineral insulating plasters usually require two coats of a different ISORYX primer.

→ Please request advice here.

To ensure the full effect of the ISORYX Reflection-Barrier-Technology, a dry layer thickness of at least 0.40 mm. If ISORYX Outside is applied with a roller or brush, two coats are usually necessary to achieve this thickness. When using coloured ISORYX Outside, the first coat should be applied white before the coloured top coat follows.

Any construction defects or damage and their cause must be remedied before application! Mould must be properly removed beforehand.

Application instructions for smooth surfaces

1. Prepare the substrate

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

2. Apply primer

- Select appropriate ISORYX primer for the substrate
- Request technical advice if in doubt
- Ensure uniform application

3. Initial mixing

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

4. First coat

- Apply white ISORYX Inside
- Use cross-application technique
- Verify layer thickness: minimum 0.2 mm
- Use measuring comb for verification

5. Initial drying

- Minimum 24 hours between coats
- Extend time in case of 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-application technique
- Minimum thickness: 0.2 mm
- Final finish in one direction

8. Final drying

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

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

Work steps for rough substrates

Rough, textured or highly absorbent surfaces can significantly increase the amount of material required. The exact amount required should be determined by creating test areas.

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

Make sure that the measuring comb is drawn over both the raised (mountains) and the recessed (valleys) parts of the surface. This will give you a more accurate measurement, as uneven surfaces can affect the layer thickness differently.

Consumption

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

Rough, structured or highly absorbent surfaces can significantly increase the material requirement.

Cleaning

Clean tools thoroughly with water after use. Properly recycle empty containers.

Storage

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

Customs tariff number

32099000

Guarantee

Primers for ISORYX Reflection-Barrier-Technology:

- ISORYX Primario for absorbent mineral substrates
- Further primers available on request. If you are unsure, please request advice.

Technical data

| Property | Value |
|-------------------------------|----------------------------------------------------------------------------|
| Basic properties | Solvent-free, environmentally friendly and odourless |
| Resistance | UVA-resistant, water-repellent, microporous and non-film-forming |
| Water resistance | Water-repellent |
| Abrasion | Wet abrasion class II |
| Opacity | Class II at approx. 0.25 L/m ² |
| Whiteness | L > 95.0 |
| Water vapour permeability | SD value 0.05 m according to EN ISO 7783-2 (V1) |
| Water absorption | 0.1 kg/m ² h ^{0.5} at 0.4 mm thickness (DIN EN 1062-3) |
| pH value | 8.6 (± 1.0) |
| Density | 1.01 ± 0.1 g/cm ³ |
| Reflection | > 90% with white coating |
| Crack-filling | Up to approx. 0.50 mm |
| VOC content | 1.9 g/l (limit 40.0 g/l) DIN EN ISO 11890-2 |
| Water absorption W3 | 0.05kg/m ² √24h (DIN EN 1062-3) |
| Emission value ε _n | 0.315 at 5.5 to 23.3 μm 0.005 at 1.9 to 3.1 μm |

Legal information

The information contained in this document is based on our current technical knowledge and experience. However, due to the large number of possible influencing factors when processing and using our products, the user is obliged to carry out their own tests and inspections. The information provided serves only as a general guideline. It does not constitute a legally binding assurance of certain properties or suitability for a particular purpose. The user is also responsible for observing existing property rights and applicable laws and regulations.

Unresolved construction defects can lead to warranty issues.

With the publication of this data sheet, all previous versions are no longer valid:

Date of previous version: 15.09.2024

Version number of previous version: 2.1 (de)

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