

Data Sheet

D.t.2017 Rev 001
This document contains 3 pages

ISOBELL® FACADE

Wall nano-coating

COMERCIAL NAME: ISOBELL® FACADE

DESCRIPTION

Nanotechnological wall coating for interior and exterior anti-condensation-elastomeric-sanitising-thermal insulation Formulated with 3M Glass Bubbles, reflective based on siloxane resins in emulsion with high water vapour permeability, with a final appearance similar to standard finish coat.

PACKAGING: 20 kg

DRYING: 24 - 48 HOURS

COLOR

White or neutral base for tintometer preparation.

COMPOSITION

Water-diluted silicone resin, acrylic dispersion, granulometry-controlled marble grit, charges, 3M Glass Bubbles, additives and pigments sanitising additives, in such a content as to guarantee the fulfilment of physical parameters such as: permeability, water repellency, CO2 diffusion.



This product contains a bactericide.

Active principles: 2-octyl-2H-isothiazol-3-one, CAS 26530-20-1 EINCAS 247-761-7 index number 613-112-00-5, diuron CAS 330-54-1 EINCAS 206-354-4 index 006- 015-00-9, zincopiritione CAS 13463-41-7 EINCAS 236-671-3

Appaerence	Standard finish coat
Viscosity	Tixotropica
Thickness	1/ 1,5 / 2 / 2,2 mm
Solar reflection factor	0,765
Solar absorption factor	0,235
Thermal Emissivity	0,91
"SRI" solar reflection index:	95,2

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Capitale sociale € 1.000.000,00 i.v.

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CONSUMPTION

Graine 1 mm	1,6 - 1,8 kg/m ²
Graine 1,2 mm	1,8 - 2,0 kg/m ²
Graine 2 mm	2,4 - 2,8 kg/m ²
Graine 2,2 mm	2,6 - 3,0 kg/m ²

The indicated consumptions refer to smooth substrates and are for guidance only. Actual consumption must be identified with a suitable practical test (data referred to 20°C and 65% of UR) The complete cross-linking in depth of a coating depends strictly on the environmental humidity and temperature conditions.

This cross-linking can last up to 2/6 months in unfavourable conditions such as temperatures below + 8°C, excessive atmospheric humidity, night condensation, fog, etc. Difficult situations are also to be considered applications that have taken place in particular construction sites, such as for example apartment blocks without eaves, walls to the north, etc.

The support must be healthy, dry and not dusty, any fungus and mould must be carefully brushed and disinfected with an sanitising primer. After a few hours when the microorganisms has been neutralised, carefully clean, then proceed with the application of water-repellent silicone-based fix primer. After drying, proceed with the preparation of ISOBELL FACADE. The product is ready to use, if necessary add a little water and stir slowly. Spread a covering layer with a stainless steel trowel with a thickness equal to that of the granules it contains. Pass over again with a cutting spatula to remove any excess material.

After light drying, pass over with a plastic trowel with rotary movements to compact, even out and achieve the full plaster effect. On large surfaces, it is recommended to apply a product of the same batch and always proceed wet on wet to avoid signs of recovery. Never operate at temperatures below + 5 °C. Rainy weather, excessive atmospheric humidity and temperatures below +8° C, can considerably compromise the drying process with the possibility of washing away with rainwater even after several days. In these situations, it is advisable to protect the façades from unpredictable rain showers, in order to jeopardise the success of the work. For storage, store in tightly closed containers and protect from frost.

Liquid-water transmission rate (permeability) Standard UNI EN ISO 1062-3	w = 0,070 kg / (m ² √h) Class W3 (low permeability)
Water-vapour transmission properties Standard UNI EN ISO 7783-2	Sd = 0,3992
	Thickness = 2146 µm
	µ = 186 Class V2 (medium permeability)
Pull-off test Standard UNI EN 1542	fh = 0,4 MPa
Thermal conductivity Standard UNI EN 1745	λ _{10,dry} = 0,83 W/mK (P = 50%) λ _{10,dry} = 0,93 W/mK (P = 90%)

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SUPPORTS ALREADY TINTED WITH SILOSANIC

Remove any stains and proceed by painting with the siloxane coating. (it is always recommended to apply a coat of siloxane impregnating agent)

NEW SUPPORTS

Apply a coat of siloxane acrylic fixative primer.

OLD MOUNTS ATTACKED BY MOULDS

Clean the wall from mould and algae, disinfect with sanitiser after a few hours, when the micro-organisms are neutralised, proceed with the application of a coat of fixstivr primer. After drying, proceed with applying ISOBELL® FACADE.

FIELD OF APPLICATION

Designed especially for buildings and monuments subject to the protection of the Ministry of Cultural Heritage. The binder based on an emulsion of silicones has allowed developing a microporous filter impermeable to heavy rain, and, at the same time, permeable to the diffusion of water vapour. Thermal insulation coating that allows the realisation of a thermal insulation with the obvious advantages of recovering the thermal mass from the walls and eliminating bridges and thermal changes of the buildings. Due to its high degree of insulation and transpiration, it is widely used to radically solve mould problems, through the synergistic action of fungicide and thermal insulation.

STORAGE

12 months in the original containers tightly closed and stored in a covered environment, away from direct sunlight at a temperature between +5° C and + 35° C.

AVOID FROM FREEZING

GENERAL NOTES AND WARNINGS

To avoid film-formation defects, being resin-based products in aqueous emulsion, the application temperature must be between +5° C and +35° C with relative humidity not higher than 60/70%. Do not apply under direct sunlight or wind. Do not apply on fresh or particularly alkaline substrates, observe a minimum period of drying of the substrate of at least four weeks. It is also advisable not to use on large surfaces painted with different production lots, as technical differences between a batch and another are technically possible. Please check the colour before application as we will not be liable for any claims of the shade on the applied product. Always finish the application on edges, string courses or, in any case, in areas where it is not possible that recovery signs appear. To ensure complete drying and polymerisation of the paint film over a period of 10-15 days, it is advisable to strictly follow the above climatic conditions. Rain or high humidity such as night condensation or mists that may occur during the resin reticulation period could cause the whitish slimy streaks. For marked colours, therefore sensitive to the alkalinity and the efflorescence of the support, pretreat with alkalinity sealant acrylic pigmented fixative.

A/c Paint for external walls of mineral support. BA. EU VOC limit value (Directive 2004/42 / EC) for this product Cat. B.C): 75 g/l (2007); 40 g/l (2010). This product contains a maximum of 1 g/l of VOC.

The data and news reported above are based on our precise studies and experiences. Since the conditions of use may be influenced by elements beyond our control, we cannot assume any responsibility in relation to the results obtained. In any case, it is recommended to examine the suitability of the product by means of preliminary sample tests.

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