



3G Thermo Interior

Excellent quality, heat-insulating paint



V02, 02.2021

Packing: 0.75lt | 3lt | 9lt

Description

Third generation and advanced technological composition water-based functional coating for interior surfaces. Designed to contribute to thermal comfort as well as the energy upgrade of the areas in which it is applied. Although technologically advanced, it can be applied by the individual user, ensuring perfect quality and functional results.

Purpose of Use

Painting interior walls and ceilings.

The main goal of product design is the energy upgrade of the area. It also contributes to the saving of energy resources and especially in areas that do not have any insulation at all. The energy upgrade is achieved due to the reduced heat loss from the surfaces to which it has been applied. Through this process we can achieve a better thermal comfort, thus improving the microclimate of the area and consequently our living in it.

Product Characteristics

- Energy upgrade of the interior area where it is applied as it reduces heat loss from the surface having as a main advantage the saving of energy resources. It therefore improves the efficiency of cooling and heating and helps in reducing energy cost.
- Achieves better thermal comfort in the area where it is applied without many and abrupt temperature changes.
- Prevents condensation of water vapor on the surface and inhibiting the formation of fungi and mold.
- Improves acoustics in the area where it is applied, has soundproofing properties, helping to reduce the transmission of sound.
- Allows the surface to breathe.
- The product does not replace traditional insulation systems, but it can also contribute to an energy upgrade at a low cost to the end user. It can be used both on new surfaces after their proper preparation but also on already painted surfaces with emulsion or acrylic paints.
- Belongs to the new generation of functional and "smart" coatings because it performs several functions in addition to traditional painting.
- For maximum results, at least 3 coatings are recommended.
- In case of repainting the product with common emulsion or acrylic paints, the product loses some of its properties.
- Due to the reflectivity and the special micro roughness that the product displays, it contributes to the better diffusion of light into the space, resulting in a brighter interior environment.

Shades

Available in white. It can be tinted in very light shades bases with Berling's tinting system.

Coverage

7-9m²/lt, per coat.

Recommended painting systems

New and old interior surfaces

New surfaces		
Stage	Description	Coatings
Preparation	For perfect results is recommended to treat the surface with Stucco Grid plaster, following its application instructions.	2 coatings
Primer	Prime with Acrylic Emulsion Primer or Plasterboard Primer, following their application instructions,	1 coating
Final coating	3G Thermo Interior	3 coatings
Old-Already painted surfaces		
Stage	Description	Coatings
Preparation	In case of all ready painted but healthy surfaces no special preparation is required. In case of treatment with putty, first rub the puttied surfaces using sandpaper.	
Primer	In case of all ready painted but healthy surfaces no priming is required. For surfaces treated with putty, or chalked surfaces or surfaces painted with lime prime with Nature Aquafix or Berling Nanoprimer. If the surface is dirty from fumes use primer Nature Aquasil, prior the product application.	1 coating 1 coating
Final coating	3G Thermo Interior	3 coatings

Application conditions

Apply at temperature from 8°C to 35°C and relative humidity up to 75%.

Application instructions

Thin the product with water at a rate of up to 20% and stir. Apply with a roller or brush.

Technical Characteristics

Density	0,82 ± 0,03gr/cm ³ (ISO 2811).
Viscosity	>120 KU 25 ⁰ C (ASTM D562)
pH	7.8-8.8
Coverage	8 -10m ² / lt per coat
Thinning	Thin with water at a percentage 15 - 20 % by volume.
Drying time	Touch dry: ½- 1h. Through dry: at least 24 hours. (The times may be longer depending on the temperature and humidity)
Recoating	In 4 to 6 hours (The times may be longer depending on the temperature and humidity)
Thermal Conductivity	0,143 W/mk*
Therma Diffusion	0,25 mm /s ² *
Special Heat Capacity	0,55 MJ/m K ³ *

*According to ASTM E903-96A, ASTM G159-98, ISO/DIS 22007-2.2

ACCORDING TO 2004/42/EC

PHASE II, Subcategory a, Matt coatings for interior walls and ceilings, Value limit V.O.C.= 30gr/lt, max VOC.=25gr/lt (ready to use product).

Storage

Storage indoors to avoid exposure to high or low surfaces and high humidity conditions. Avoid sources of heat, radiation, static electricity and storage near food. Keep container tightly closed. After opening can use product in a short period of time. Close the can well.

Safety Instructions- Prevention of environmental harming

Wear protective gloves and goggles. Do not eat or drink anything while using the product. Always wash hands with appropriate cleaning products.

Clean tools after use with soap and water. Do not dispose eluants and paint remains in the sink, toilet or bin. Empty cans and paint residues must be disposed of in accordance with applicable laws and local regulations. Advice should be asked from local authorities regarding the disposal and collection of waste.

Keep out of reach of children. Always read the label before use.

For further information ask for the Safety Data Sheet of the product.

All the above information is based on laboratory tests and long-term experience of the company's scientific personnel. Product quality is guaranteed by our operational system, which is based on the requirements of ISO 9001, ISO 14001 and ISO 45001 Standards and EMAS Regulation. As producers we don't take an responsibility for any damage that may be caused in cases that the product hasn't been used for the appropriate application and according to the application instructions.

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