



3G Thermal Interior

Excellent quality, heat-insulating paint



09.07.2019 v02

Packing: 0.75lt | 3lt | 10lt

Description

Water-based, heat-insulating paint for interior use formulated with a blend of foamed extenders and featuring exceptional filling power. It's heat-insulating properties allow it to reduce heat loss through walls. These properties prevent efflorescence forming caused by poor thermal insulation and by moisture resulting from condensation. Measured by the Science department of the University of Athens, it has extremely low thermal conductivity values and it presents extremely good values of thermal diffusivity, and specific heat capacity.

Thermal Conductivity	0,143 W/mK
Thermal Diffusivity	0,25 mm ² /s
Specific Heat Capacity	0,55 MJ/m ³ K

Product Characteristics

- New generation, technologically advanced coating
- It contributes to the energy upgrade
- It contributes to the thermal comfort
- increased resistance in the development of fungi and mold
- Low content in V.O.C.
- Formaldehyde free
- Zero emission of harmful substances to the applied space
- Due to the high reflectivity of the product, it contributes to a better diffusion of light into the space, which results in lighter internal surroundings.

Shades

Available in white and in very pale shades based on relevant tinting system.

Application conditions

Apply at temperature from 10°C to 35°C and relative humidity up to 70%.

Application instructions

Thin with water at a percentage 15 - 20% by volume and stir the product well before use. Do not apply when temperature of the air, substrate or product is below +10°C. Keep in tightly sealed tin, at a temperature over +5° C. The application of other emulsion paints on top of this product, eliminates the product's heat-insulating effect. For smooth finishes, apply two coats of 3G Thermal interior, leaving 12 hours between coats. The slightly textured effect is achieved by thinning paint with water at 15% and applying at least 2 coats with a mohair roller to a thickness of 300 - 400 microns. The textured effect is achieved by thinning paint with water at 15% and distributing the paint evenly with a brush, and rolling over the surface with a suitable roller (thickness 500 -1,000 microns).

Film thickness and Coverage

For the good effect of thermo-reflectance, the proper film thickness of the coating should be 300 - 400µm, at least three (3) are recommended.

Surface Preparation

Surfaces to be painted must be dry and clean from any dirt, grease, salts or loose and flaking paint. For any existing holes, cracks or wall irregularities use acrylic putty or two component putty prior to applying the product. The product is applied by brush or roller after being suitably thinned.

New Surfaces

If the surface is new plaster, allow to dry out, clean any dirt stains, and apply a coat of primer, taking care to choose the most suitable one for this kind of surface.

Old Surfaces

If the surface to be painted is already painted with emulsion paint, varnishes, lime wash or silicate paints, eliminate the surface completely by using a suitable primer. On moldy walls after cleaning, restore with an anti mold paint, allow to dry thoroughly and then apply 3G Thermal interior.

After use, remove any remaining paint from the tools and clean them with water and soap. Eluants must be handled according to the current legislation and the local regulations.

Technical Characteristics

Binder	A mixture of water-soluble copolymers.
Pigments	Titanium Dioxide.
Fillers	Special functional fillers.
V.O.C	25gr/lit product ready to use.
Specific gravity	0,80 ± 0,02gr/cm ³ (ISO 2811).
Viscosity	120 - 125 KU 25° C (ASTM D562)
P.H	8,8 ± 0,2.
Performance	8 -10m ² / It per coating (at least 3 coatings are recommended)
Thinning	Thin with water at a percentage 15 - 20 % by volume.

Drying time	½ to 1 hour on the surface. (The times may be longer depending on the temperature and humidity). In depth, at least 24 hours.
Repainting	In 4 to 6 hours (The times may be longer depending on the temperature and humidity)

Stampings - Environmental effect prevention

The product is not classified as hazardous and no safety measures are required. Empty cans should be destroyed in accordance with valid regulation. Liquid waste should be destroyed according to local regulations. For more information ask for the Material Safety Data Sheet.

Storage

Keep cans air - tight sealed and protect from frost. For long - term storage the product is best kept indoors in order to avoid its exposure to very low or very high temperatures as well as high humidity conditions.

Product Life Time: 2 years life time from production date.

Storage Temperature

5 - 40° C.

Transportation

Not dangerous while transportation according to the ADR regulation.

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 OHSAS 18001 Standards and EMAS Regulation. As producers we don't take any responsibility for any damage that may caused in cases that the product hasn't been used for the appropriate application and according to the application instructions.

BERLING SA

Paint Industry

Inofita Viotias, P.C. 32011

tel.: +30 22620 31663, fax.: +30 22620 31293

www.berling.gr / info@berling.gr

