THERMOELASTIC COLOUR

Thermo ceramic energy efficient paint

PROPERTIES

High quality thermal insulating, elastomeric, and acrylic paint. With excellent resistance to adverse weather conditions that can be defined by extreme temperature variations, high humidity, frost, and intense sunshine. It maintains its flexibility over a wide temperature range between -20°C and +80°C. The thermoceramic flexible membrane formed by its application bridges exceptionally well all capillary cracks and provides excellent waterproofing. The cutting edge technology incorporated within THERMOELASTIC COLOUR composition is mainly based on the ceramic and glass microspheres contained in its formula; these microspheres provide the product with excellent reflective properties and help to scatter solar radiation (heat) to the environment. In addition, it prevents the condensation of water vapor in the interior of the building while protecting the paint film from mold and green spots. Consequently, due to the significant reduction of the wall moisture content where it is applied, its high reflectivity, and its thermal insulating properties, it contributes to energy savings, all year round. Extremely resistant to environmental conditions, such as air pollution, alkaline atmosphere, the concentration of urban and industrial gaseous pollutants, etc. The efficiency of THERMOELASTIC COLOUR as coating paint deservedly brings the benefits of a smart and affordable solution regarding energy upgrade of existing buildings constructed prior to 1980. Distinguished for its enduring whiteness and high coverage. It functions as an effective carbonization blocker. It does not saponify. The final white or colored surface remains unchanged over time. Certified cool **(*)** paint by University of Athens (Department of Physics, Application Physics Division) as Energy efficient thermo ceramic paint for exterior wall surfaces.

APPLICATIONS

THERMOELASTIC COLOUR can be used to thermally insulate, seal and decorate new or already painted exterior vertical building surfaces

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made of plaster, concrete, cement boards, prefabricated structural materials etc. Mix well before any use. When used in combination with the roof waterproofer DS-220, it reduces the energy used for cooling and heating by up to 30%, and interior temperatures by up to 20% during the summer months.

USE

1. Surface preparation
Concrete and marble based plaster must be dry and free from loose materials and oils. At least 30 days must have passed from their construction completion.

2. Application
Dilute THERMOELASTIC COLOUR with clean, cool water at a ratio of 5-10%, depending on the substrate, and stir well. Apply with brush, roller or airless spray gun in 2 coats. Apply the second coat, after the first one is completely dry.

CLEANING
Clean all tools with water and detergent solution, immediately after use

LIMITATION OF USE
Do not apply with temperatures below +8°C or if there is a chance of rain or frost within the next 12 hours.

PERFORMANCE
Approximately 10-12m²/lt per coat, depending on the texture, the absorbency of the surface and the application method.

STORAGE
Store in the factory sealed containers indoors, in temperatures between +5°C and +35°C, for up to 18 months from production date.

SAFETY DIRECTIONS
The product needs no hazard labeling under current European and National legislation. However, it is recommended to keep the product away from the reach of children. If swallowed, seek immediate medical advice and show the container or label.

PACKAGING
3lt container (on a 120 pcs pallet)
10lt container (on a 48 pcs pallet)

(*) Cool material
The product presents increased reflectivity to solar radiation and a high emission factor to infrared radiation. Such a product helps to reduce surface temperatures and - consequently - indoor temperatures as well as energy consumption of the building. It also helps to eliminate the so called 'heat island effect' and to improve summer climate in urban environments. The parameters whose values are used to classify a product as cool, are solar reflectivity **(SR)**, emission coefficient **(e)**, composite solar reflectivity index **(SRI)** and thermal conductivity coefficient **(λ)**.

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TECHNICAL SPECIFICATIONS	
Color	White that does not yellow over time
Shades	20 basic DUROCOLOR liquid pigments in 20ml syringe packaging, that create 120 permanent colors. The PAL paint base is colored via the COLOR COLLECTION System in any desired color.
Washability	> 22.000 cycles (per DIN 53788)
Gloss	Matte
Drying time-Recoating time	2-3 hours (touch dry). Recoat after 6-8 hours. Drying and recoating times depend on ambient conditions (humidity-temperature).
Application temperature	From +8°C to +35°C
Flammable	No
V.O.C. (Volatile Organic Compounds): *Limit value of maximum V.O.C. content per EC (Directive 2004/42/EC) for the particular product (Class A/c: 'Coatings for exterior walls of mineral substrate' Type WB): 40gr/lt (2010). The ready to use product contains maximum 39gr/lt V.O.C.*	