

# THERMOELASTIC COLOUR



Thermo ceramic energy efficient paint



EPD®

## ■ PROPERTIES

High-quality, elastomeric, and acrylic waterproofing paint for thermal protection. It presents excellent resistance to adverse weather conditions that can manifest by extreme temperature variations, high humidity, frost, and intense sunlight. It maintains its flexibility to temperatures from -20°C and up to +80°C. The thermo ceramic flexible membrane created by its application perfectly bridges capillary cracks and provides excellent waterproofing from moisture. The state-of-the-art technology of THERMOELASTIC COLOUR is primarily based on the glass microspheres contained in its formula, which yield excellent reflectivity and dispersion properties. Properties that reflect and disperse back to the environment the solar (thermal) radiation it is exposed to. In addition, it prevents water vapour condensation in the interior of the building, while at the same time protecting the paint film from mold and moss formation. Consequently, due to the significant reduction in the moisture within the coated walls, its high reflectivity, and its thermal

protection properties, it contributes to saving energy both during the winter and summer months.

Extremely durable against environmental conditions, such as air pollution, urban and industrial gaseous pollutants, etc. As a coating paint THERMOELASTIC COLOUR is a smart and affordable solution in terms of waterproofing and thermal protection for buildings, especially those built before 1980. Distinguished for its enduring whiteness and high coverage. It does not saponify, but it is also an effective carbonation barrier. Its final, white or colored, appearance remains unaffected over time. The product has received an Environmental Product Declaration (EPD) following an assessment of the environmental impact of its life cycle. Registration number: S-P-13783, The International EPD® System.

Certified cool (\*) paint of low thermal conductivity, and high reflectivity from the University of Athens (Department of Physics, Applied Physics Division),

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as energy efficient thermo ceramic paint for exterior wall surfaces.

### ■ APPLICATIONS

THERMOELASTIC COLOUR thermally protects, waterproofs, and decorates vertical exterior, new and/or existing building surfaces made of plaster, concrete, cement board, prefabricated building elements, etc. In combination with the product for thermal protection and roof waterproofer TECH-NOPROOF THERMO of DUROSTICK, it reduces the energy consumption for heating or cooling as well as the temperature in the summer months.

### ■ LIMITATIONS OF USE

Do not apply at temperatures below +8°C or when there is a chance of rain or frost for the next 12 hours.

### ■ USE

#### 1. Substrate preparation

Concrete and marble-based plaster surfaces have to be dry, free from loose materials and oils, and must have cured for at least 30 days after their construction.

**For new concrete surfaces,** make sure to remove any formwork oils, if any, using the biodegradable oil remover BIOCLEAR INDUSTRIAL. Continue by applying two coats (1mm each) of the corrosion inhibitor RUST FREE POWDER of DUROSTICK over all exposed reinforcing steel/rebars (if any). Once dry, cover the rebars with the rapid set repair mortar with corrosion inhibitor DS-247, or with the thixotropic and fiber-reinforced, rapid set repair mortar DS-245 POWER MORTAR RAPID of DUROSTICK. Finally, prime with SOLVENT-BASED PRIMER of DUROSTICK, diluted with THINNER 101 or white spirit.

**For new marble-based plaster surfaces,** sand them down using No60 sandpaper and prime using 100% ACRYLIC PRIMER, AQUAFIX micromolar stabilizer or SOLVENT-BASED PRIMER of DUROSTICK.

**Surfaces infested with black or green mold or even active fungi,** have to be cleaned using DUROSTICK

D-95 CLEANER. Then rinse them thoroughly, and once dry, prime them using either the SOLVENT-BASED PRIMER or the micromolar stabilizer AQUAFIX.

**For skimming or filling,** use STUCOFIX paste, STUCOFIX-P, POWDER COAT, GRANULAR ULTRA or GRANULAR of DUROSTICK, or any combination of the above, depending on the surface imperfections and smoothness of the finish necessary. Follow by priming the surfaces.

**Already painted,** sound surfaces require just two coats with THERMOELASTIC COLOUR of DUROSTICK.

**Surfaces soiled with soot and air pollution,** are cleaned with the biodegradable cleaner BIOCLEAR (for nicotine and soot) or they are primed with METAL PRIMER.

**For peeling surfaces,** remove all loose materials and prime using 100% ACRYLIC PRIMER, or the micromolar stabilizer AQUAFIX.

**Marble-based plaster surfaces with severe cracks,** are sealed with the fast setting white repair plaster D-32. Concrete surfaces are sealed with the repair mortar D-55 of DUROSTICK, and once dry, they are primed as described before. Especially on surfaces with intense expansions and contractions, the application of the water repellent, flexible plaster, HYDROSTOP PLASTER ELASTIC or the flexible, multipurpose, repairing cementitious mortar, MEGAFIX, is highly recommended.

**Filling joints around doors and window casings,** by using the paintable ACRYLIC CAULK for interior use, the elastomeric sealant DUROFLEX-PU for exterior use, or the versatile sealant and adhesive for interior/exterior use, DS POLYMER.

#### 2. Application

THERMOELASTIC COLOUR is diluted at a ratio of 5-10% with water (depending on the substrate), and by mixing well. Apply it with a roller, brush, or airless spray in two coats. The second coat follows after the first one has completely dried.

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(\*) In order to comply with the parameters that define a paint as "Cool" material and to maximize its energy efficient benefits, by mainly maintaining its reflectivity, it is recommended to choose/apply a white or light color.

### ■ CLEANING

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

### ■ COVERAGE

Approximately 10-12m<sup>2</sup>/lt per coat, depending on the texture, the absorbency of the surface and the method of application.

### ■ STORAGE

Store in the factory sealed packaging indoors, at 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).

## TECHNICAL SPECIFICATIONS

■ Color	White that does not yellow over time
■ Colors	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. The drying and recoating times depend on the ambient conditions (temperature, humidity)
■ Application temperature	From +8°C to +35°C

### V.O.C. (Volatile Organic Compounds)

Limit value of maximum V.O.C. content per EU (Directive 2004/42/CE) for the particular product (category A/c: 'Coatings for exterior walls of mineral substrate', Type WB): 40gr/lt (2010). The ready-to-use product contains a maximum of 39gr/lt V.O.C.

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