

THERMOPROTECT ACRYL

Information

THERMOPROTECT ACRYL is a readymade acrylic based pasty render for use as finish coat in an Exterior Thermocoat Insulation and Energy saving Systems as a white or ready colored product. It offers very good workability it applies easily and it doesn't spill or sag. It adheres very well in any kind of building material having great elasticity with out cracking in the film thickness of application instead other type of cemented products. It possesses water repellency and vapor permeability to the building structure gaining for the film resistance to harsh weather conditions and time. It is almost odorless and it can be used also for interior application. Finished surface delivers a smooth decorative option depending on the film and maximum aggregate thickness desired.

Properties

Color : White and unlimited number of shades through THE XRO.MA COLOR SYSTEM.

Density: 1.78 ± 0.05 g/ml
(EN ISO 2811-1)

pH: 8-9.5
(EN ISO 19396-1)

Vapor Permeability: Sd=0.24±0.02 m
(EN ISO 7783, 0.14<Sd <1.4, medium, V2)

Water Permeability: w=0.069 ± 0.02 kg/m²h^{0.5}
(EN ISO 1062-3: 2008) (w<0.10, low, W3)

Adhesion: ≥1.0 MPa
(EN 1542)

Thermal Conductivity: 0.75 W/ (m K)
(EN 1745)

Fire resistance: CLASS B-s₂, d₀
(EN ISO 13501-1)

Drying time: 5-7 hours (+23°C)

Substrate Preparation

THERMOPROTECT ACRYL is applied in all kind of relevant building materials older and new like cemented boards, other plasters, concrete, bricks, gypsum boards, wooden boards etc. after their preparation with adequate priming. Substrate should be clean and dry free of dust and loose material, rust and oily substances that can create loss of adhesion. In case of big voids or cracking's these should be filled with adequate materials. Priming follows in case of Acrylic Primer after 1:3

to 1:4 dilution with water or Micronized Primer with 50% dilution with water (this in case of dust or loose particles is mostly suggested).

S-PLASTER PRIMER is proposed for homogeneity of color between substrate and finish coat. In case of very smooth substrate together/or with low absorption a QUARTZ PRIMER is suggested.

All primers consumption depending on surface absorption is between 100-200 gr/m²

Application

Product is slowly agitated for homogenation for short time so that air bubbles are not incorporated. Then product is applied with metallic trowel or plastering machine equipment. Following until 10 minutes time the appliance is homogenized with plastic trowel and let dry. Open time and subsequently overall drying time is greatly depended from higher to lower temperatures of environment during application and also to higher than 80% humidity of air conditions or even from diversity of surface absorbance.

Consumption is theoretical evaluated as 1.75 kg/m² per mm of film thickness, but practically experience shows that consumption can be described with following table.

TYPE	FILM THICKNESS mm	KΑΤΑΝΑΛΩΣΗ
THERMOPROTECT ACRYL 1mm	1 mm	1.70-1.80 kg/m ²
THERMOPROTECT ACRYL 1.5mm	1.5 mm	2.40-2.60 kg/m ²
THERMOPROTECT ACRYL 2mm	2mm	3.20-3.40 kg/m ²

Tools should be cleaned with water and detergent immediately after use.

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Notations

Application and drying should be done in 5-35°C and humidity not more than 80% also application surface should be protected from rain and frost conditions. In case of lower than 5 °C and humidity exceeding 80% it is probable that drying is quite slower depending on these environmental conditions.

Colors involving different batches might be slightly different due to the nature of aggregates of product. It is suggested that for each different application side one batch should be used or in case of different batches there should be mixing between them before application. Slight Color differences may occur also from environmental variations of temperature, humidity or substrate situation.

Packaging

Product is delivered in 25 Kg.

Life time - Storage

Shelf-life time of the product is 24 months. It should be stored between 5-35°C. Protect the product packaging against direct sunlight and frost.

Volatile Organic Compounds

According to Directive 2004/42/CE (Annex II, table A), the maximum allowed VOC content for the product subcategory c, type WB is 40 g/lit (2010) for the ready-made product.

The ready-made product THERMOPROTECT ACRYL contains a maximum of 40 g/lit VOC.

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EN 15824

External render based on organic binder

DoP No.: THERMOPROTECT ACRYL
/ 9010-01

Water vapor permeability: V2

Water absorption: W3

Adhesion: 1.0 MPa

Durability: NPD

Thermal conductivity: $\lambda = 0.75$ W/ (m K)

Reaction to fire: Euro class B-s₂, d₀

TO XROMA

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