



arteMURI® ESATHERM



Heat-reflecting anti-mould paint for interior use.
Certified in class A+ according to UNI ISO EN 16000-9.



NON CONTIENE SOSTANZE
DANNOSE PER LA SALUTE
FORMALDEIDE free



LEED 4.1
Compliant

Product description and fields of application

ESATHERM is a paint for interiors that contains special insulating hollow microparticles that, thanks to the barrier that the product creates on the substrate, increase the surface temperature of the same, decreasing heat dispersion and thus contributing to energy saving. As a result, ESATHERM prevents the formation of condensation and the consequent development of mould, while allowing the wall to breathe. Free of solvents, formaldehyde and with very low levels of VOC (Directive 2004/42/EC). The product is therefore suitable for painting particularly humid, poorly ventilated and highly condensed rooms, such as kitchens, bathrooms, laundries, indoor swimming pools, cellars, etc.

ESATHERM is suitable for application indoors on lime-binder mortar plaster finished in a civil finish, gypsum-based finishing primers and plasterboard panels.

ESATHERM can be tinted with the arteMURI tinting system.

Advantages

- insulating effect
- anti-condensation effect
- anti-mould effect
- breathable and washable
- ease of application

The reported data refers to Quality Control tests in standard environmental conditions. Practical applications in the construction sites may detect significantly changed data, depending on operating conditions, so the information on the Card is only indicative because the user must always check its suitability for intended use of the product by taking responsibility for the use. Fornaci Calce Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice.

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Specifications

Interior wall surfaces, such as mortar based on lime-hydraulic binders, pre-mixed and traditional mortar, civil-finished and concrete conglomerates of various types, can be finished with the thermo-insulating, sound-absorbing and anti-condensation wall paint ESATHERM by Fornaci Calce Grigolin, a product based on synthetic copolymers in water dispersion and special insulating micro-particles. The minimum consumption of this product is 0.30 l/m² for two coats.

Consumption and packaging

ESATHERM is supplied in 5 l and 14 l packages.
The minimum consumption of this product is 0.30 l/m² for two coats.

Conservation Standards

Frost-resistant. Store at a temperature between +5°C and +30°C in the original sealed containers. Under these conditions the shelf life of the stored product is at least one year.

Substrate preparation

New substrates and/or any renovations (patches) must be cured for at least 4 weeks, clean and dry. Old substrates must be consistent, free of salt efflorescence and loose parts, thoroughly cleaned according to the nature and intensity of dirt deposited on the surfaces to be treated. To level and fill imperfections such as holes, cracks or crazing, first intervene with a suitable repair product or mortar. Clean off any mould or algae present and then sanitise the surface with SEI OK restorer.

On already painted surfaces, make sure of the condition of the film: brush and/or scrape off loose films, completely remove heavy layers of non-adhering paint.

Substrate treatment

New plasters: apply one coat of UNO FIX.

Plasters with the presence of mineral paints (lime or silicates): apply one coat of UNO FIX or ONE MICRO.

Plasters with the presence of synthetic paints (acrylic, siloxanic): apply directly.

Cement/concrete/fibrocement: apply one coat of ONE MICRO.

New plaster/plasterboard: apply one coat of UNO FIX or ONE MICRO.

Plaster/plasterboard painted with tempera: apply one coat of UNO FIX or ONE MICRO.

Plaster/plasterboard painted with washables: apply directly.

Product preparation

Stir ESATHERM and then dilute it with 10-15% by volume of water for brush applications on a smooth finish. In the case of roller applications, dilute with 3-5% by volume of water, resulting in a slight pitted finish. Remember that diluting the product more will produce a more rounded pitted finish with less pronounced relief.

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Application

Apply ESATHERM by brush on the dry surface and in any case no less than 6-8 hours after the application of any fixing agent, After about 2-4 hours proceed with the second coat, crossing the passes in the case of a smooth finish. In the case of a textured finish, spread evenly with a brush or roller and finish with a short-hair roller.

Important Warnings

Do not apply when ambient and/or substrate temperature is below +5°C or above +35°C and relative humidity is above 75%. Avoid applying in the presence of surface condensation. The adhesion of the product to the substrate is not guaranteed when the application is made on surfaces that show salt efflorescence or are subject to humidity, therefore a preventive intervention to restore the masonry is necessary.

Safety instructions

The product does not require hazard labelling according to current legislation. Use the products according to current hygiene and safety regulations. After use, do not dispose of containers in the environment. Let residues dry well and treat them as special waste. See safety data sheet for further information.

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TECHNICAL DATA	PERFORMANCE
Binder type	acrylic copolymers
Appearance	paste/pigmented
Specific weight (UNI EN ISO 2811-1) 25°C±2	1160 ± 20 g/l
Brookfield viscosity (ASTM D2196) 25°C±2	7.000 ± 2.000 cP
Water vapor permeability and classification (UNI EN ISO 7783-2)	V = 265 g/m ² 24h Class I (high permeability)
Equivalent air layer thickness (UNI EN ISO 7783-2)	Sd = 0,079 m
Degree of gloss (UNI EN ISO 2813)	<5 gloss, matt
VOC content (DIR. 2004/42/CE)	Matt paints for interior walls and ceilings. EU limit values for subcategory b , type BA 30 g/l (2010) This product contains a maximum of 30 g/l of VOCs.
Application	brush, roller
Theoretical consumption	approx. 130 g/m ² per coat (0.15 l/m ²)
Theoretical yield	4 m ² /l in two coats
Overpainting	2-4 hours

TECHNICAL DATA	PERFORMANCE
Washing resistance and classification (UNI 10560)	> 1.000 cycles Highly Resistant
Wet scrub resistance and cleanability (UNI EN ISO 11998:2006)	CLASS 3
Hiding power (UNI EN ISO 6504-3 :2007)	Two-coat covering power: CLASS 1

v. 10/2024