



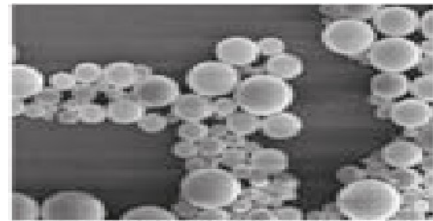
CL50-Reflex In

CL-50 Reflex-In

Technical Data sheet

THERMO-REFLECTIVE PAINTING in NANOTECHNOLOGICAL WATER BASED FORMULATION For INTERIORS.

PRODUCT: CL-50 Thermal insulating and anti-condensation paint for interiors with infra-red radiation reflection properties, reduction of thermal conduction and water repellency, protects painted surfaces and improves the energy efficiency of the building. This product has a % of **catalysis** within its formula. Catalysis is the phenomenon that traps dirt and when it rains, it expands.



**silicon
nanospheres**

DESCRIPTION: it is a new concept wall paint, which in terms of composition offers excellent resistance to UV rays, elastic behaviour, significant reduction of thermal conductivity, reflection of thermal radiation (infra-red). Reflecting over 90% of the thermal radiations that strike the walls of the rooms it is an ideal solution to improve conventional thermal insulation and internal energy efficiency. Applicable on all plastered surfaces.

Particular performance excellence with the RasoTherm thermal skim plaster (H 55Pv).

Reflex-In performs an anti-mould preventive action.

Reflex-In is used in environments subject to heavy condensation.

It is free from harmful substances such as solvents and lead- or chromate-based pigments.

COMPOSITION: it contains special nano and micro sized thermal insulating ingredients that contribute to energy saving. The thermo-reflective particles reduce the conduction of heat, reflect thermal radiation and create a barrier against humidity which translates into significant energy savings. It prevents thermal bridges, thus minimising moisture condensation and the appearance of mould. Suitable for children's rooms, bathrooms, kitchens, hospitals, schools, hotels and public areas thanks to its washability and resistance to washing (EN 13300, class 1). Suitable for all types of new and old surfaces such as concrete, plaster, dry stone and wooden walls, plasterboard.

Consumption: Estimated yield approximately 10 m²/Lt, highly dependent on the properties of the surface.

CHARACTERISTICS:

- Reflection of infrared radiation;
- Reduction of thermal conduction and water repellency;
- Energy savings by reducing the temperature absorbed by the substrate, resulting in a reduction of thermal expansion stresses;
- Reduces heat transfer to the masonry;
- Reduces and prevents thermal bridges;
- Anti-fungal action and protection against mold formation;



INSULATION

- Water-based paint with low VOC content;
- Improves water impermeability while maintaining vapor permeability;
- Compatibility with substrates;
- Does not contain metals;
- Excellent opacity and coverage;
- High wash resistance;
- Easy application on the surface;
- Protects painted surfaces and improves the energy efficiency of the building;
- Stability over time;

APPLICATION NOTES: Shake well before use. If dilution is required, add up to a maximum of 10% of water in volume. The application temperature must be between +8 and + 35 ° C. Apply 2 layers with a good quality brush, roller or spray on with a 1.4mm or larger diameter nozzle. Do not apply excess paint. Check that corners and edges are properly covered. Subsequent coats should be applied 4-6 hours after the previous application. Drying time: Generally 1 hour depending on the thickness of the coating and the ambient climate.

Low temperatures and high humidity will increase drying times.

CL-50 Reflex-In

INTERNO / INDOOR

TECHNICAL DATA

Water permeability	"non-permeable" with water according to the standard EN ISO 1062-3:2008	Thermal resistance improvement	> 61 % 0,64 R (m ² K/W)
Fungi resistance	Excellent resistance to fungi and algae, class 1 according to the BS3900:G6:1989 standards	Improvement of the thermal conductance from surface to surface	< 37 % Λ 0,36 (W/ m ² K)
COV	Max 12 gr/L	Improvement of thermal wall resistance	> 52 % RT: 0.64 (m ² K/W)
Appearance	creamy paste, white	Improvement of thermal transmittance between adjacent environments	< 34 % 0,28 U (W/ m ² K)
pH	12	Heat loss attenuation factor	>13 % 0,04 fa(-)
Specific weight	approx. 1 Kg./Lt (+/- 0.5%) approx. 20° C.	Certification standards	UNI EN ISO 13786:2007 + UNI EN 1934:2000
Drying	to the touch 45', in depth 24h at 20°C	Certifying Laboratory	CMR Center Materials Research
Thermal radiation reflection	90% of the infra-red light region (700nm – 2.2 μm ASTM G173)		
Thermal phase shift	0.2 hour (20 min) Wa (h)		



INSULATION

WARNINGS: The pack (bucket) must be closed with the original lid after each use. Once hardened it can no longer be reused. Protect the packaged product from frost (the defrosted product cannot be used). Do not apply at temperatures below + 5 ° C and above + 30 ° C. In the original sealed container, the product keeps for 12 months from the date of production (to be checked on the pack label). Store the product away from frost and sunlight.

SAFETY WARNINGS (LAWS AND CURRENT REGULATIONS): The product may produce eye irritation. If repeatedly in contact with the skin it can cause redness. The product is not to be considered dangerous according to Italian Ministerial Decree 28/01/1992. Disposal considerations: recover if possible. Send waste to normal authorised disposal facilities. Keep out of the reach of children. Do not use the empty container for storing food. Avoid contact with skin or eyes. After contact with skin, wash immediately with soap and water. Do not use thinners or solvents. In case of contact with eyes, rinse immediately with plenty of water and consult a doctor if necessary. If swallowed, seek medical advice immediately and produce the container or label. Do not throw into drains or waterways. Dispose of the empty container responsibly and in accordance with local legislation. VOCs (Volatile Organic Compounds): EU maximum limit of the VOC content value (Directive 2004/42/EC) of the ready-to-use product (category A/a "opaque paints for interior walls and ceilings", type BA): 30 g / L (2010). The maximum VOC content of this product is 12 g/L.

WARRANTY: With the voluntary self-declaration of its members, the Company Heres assumes full responsibility and demonstrates the willingness to allow spontaneous spot checks by the customer in the production plant and allows analysis and technical and laboratory checks by any applicant, even if by a competing company. All with a view to guaranteeing transparency.

NOTE: The supplier of the material, not exercising any control over the applications, does not assume responsibility for the use and the methods of installation followed. The data shown refers to tests and experiences certified in the laboratory and may be modified according to the conditions of installation. The user must however check the suitability of the product for the desired use, assuming all responsibility deriving from the use.

The manufacturer, Heres Srl, reserves the right to make technical changes without prior notice.

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