

Product with the European conformity mark  PRODUCT Nº: 4198

TECMA PAINT-TERMIC FAHRENHEIT 10.8 THERMAL ISOLATION WATERPROOFING ELASTIC PAINT

INTRODUCTION

Within the construction of buildings is betting on the installation of what is called "cold roofs", which contribute significantly to the efficiency and energy savings in buildings.

Cold roofs are roofs that are designed to maintain low surface temperatures while sunlight is striking. Sunlight is the main factor that causes roof heating.

Most conventional roofs absorb 90% of the incident solar energy and can reach temperatures of up to almost 70°C. These high temperatures in the surface of the roof, increase the flow of heat into the building, increasing the energy expenditure derived from the air conditioning equipment. In contrast, cold roofs absorb less than 50% of the incident energy of the sun, reducing the temperature of the roof and decreasing the air conditioning needs.

The use of cold roofs produces the following benefits:

- Reduce the energy bill
- Improves thermal comfort inside interiors not conditioned
- Reduce the temperature that the roof supports, thus increasing its useful life as the materials suffer less thermal shock.

How does a cold roof work?

The cold roofs present surfaces that have the capacity to reflect most of the received solar radiation and also effectively emit a high percentage of the solar radiation absorbed, so that the heating of said surfaces is avoided and, therefore, decreasing greatly heat that is transmitted to the interior of the building. The parameter that represents the measurement of the degree of cooling of a surface is the SRI (*Solar Reflectance Index*)

DESCRIPTION:

Water based coating incorporating hollow non-porous glass spherical particles of high purity and strength. Once dry, the product forms a waterproof and highly reflective membrane of the sun's rays, with a high SRI, which contributes to keep the surfaces on which it is applied cold.

TECMA PAINT-TERMIC FAHRENHEIT 10.8 forms an elastic membrane that allows the natural expansion of the surface on which it is applied, without cracking. Resists ultraviolet rays and avoids the damage that rainwater can cause. It also reduces the damages caused by corrosion and oxidation, providing a clean appearance and prolonging the life in the case of metallic roofs.

CHARACTERISTICS:

Nature	Aqueous dispersion
Diluent and cleaning solvent	Water
Application	Brush, roller, airless gun
Application temperature	from +10 to +35 °C
Surface drying time (EN ISO 1517)	1 hour
Recommended consumption	From 1 to 1,5 l/m ²
Permeability to water vapor (EN ISO 7783-1/-2) (Equivalent air barrier)	S _D < 5 meters Class I (EN 1504-2) Permeable to water vapor
Water permeability (EN 1062-3)	< 0,1 kg/ m ² .h ^{0,5} Waterproofing (EN 1504-2)
Adhesion on concrete support (EN 1542)	>0,8 MPa
Hazardous substances (EN 1504-2)	In accordance with section 5.3 of the EN 1504-2 standard
Conductivity of hollow spheres	0,07 W/m K
Color	White
SRI Index (ASTM E 1980-01) convection coefficient low (0-2 m/s)	107, 6
SRI Index (ASTM E 1980-01) convection coefficient medium (2-6m/s)	108
SRI Index (ASTM E 1980-01) convection coefficient high (6-10 m/s)	108,4

ACCREDITATIONS:

Product with the European conformity mark CE : product conforming to European standard **EN 1504-2** and **Directive 89/106/CEE on construction products.**

SCOPE:

Roof decks and roofs of fiber cement, tile, sheet metal, mortar, etc. Dwellings, industrial buildings, warehouses, livestock sheds of birds and sheep, pigs or cattle, external roofs of transport vehicles, trucks, buses, caravans, building sheds for electrical and electronic equipment, electrical cabinets and all those places where you want to eliminate warming of the Roof and lowering the temperature inside, quickly and economically.

SURFACE PREPARATION:

The surface must be dry and free of grease, oil, adhering particles, dust or any other contaminant. The surface grout must be removed by mechanical grinding in the cementitious substrates or chemical attack with **DESCA-2F**, then rinsing with plenty of water. On bare steel metal supports, remove rust by deep brushing and apply **TECMA PAINT OX** to improve adhesion and anticorrosive properties.

If the surface is contaminated with algae, fungi or mold, it must be previously washed with our **PROQUIL-AMON NF** product, rinsing and letting the surface dry.

When it comes to cementitious substrates, it must have a certain roughness and porosity to allow a good adhesion of the coating.

HOW TO USE:

In the case of cementitious surfaces, apply a first coat diluted with 10-15% of water that allows the coating to penetrate the support or apply a coat of **IMPRIMACION A** or **SATECMACONS AAJ** as a primer.

For any other type of support such as primed sheet metal, etc., the pure product should be applied but giving at least two or three coatings. The application of 0.5-0.7 l / m² is recommended to achieve a reflective effect. Of 1-1,5 l / m² to obtain a perfect waterproofing and to help the isolation of the surface.

SPECIAL RECOMMENDATIONS:

- Do not apply with temperatures below 10°C or relative humidity higher than 80%.
- Do not apply, outside, if it threatens rain before drying the product (between 6 and 8 hours minimum).

BENEFITS:

- Waterproof surfaces.
- Low the temperature of the surfaces of roofs and roofs between 15 and 22°C
- Reduce the thermal stress of the materials by prolonging their useful life.
- Excellent solution for the buildings of livestock exploitations improving the comfort of the animals and increasing the production.
- Easy to apply by conventional methods.
- Does not give off odors. It complies with Directive 2004/42 / CE of limitation of VOC`S.
- Long duration of electrical and electronic equipment in sheds and cabinets protected with the product, to avoid overheating inside.
- Reduces the cost of air conditioning systems.

PRESENTATION AND STORAGE:

TECMA PAINT-TERMIC FAHRENHEIT 10.8 is available in plastic containers of 10 and 20 lt. The product will be stored in a cool place and protected from frost without exposing to high temperatures. The product packed in its original containers hermetically sealed and stored at temperatures between 5 and 25 ° C, can be stored for at least one year.

Our product **TECMA PAINT-TERMIC FAHRENHEIT 10.8** is manufactured only and exclusively by **INDUSTRIAS QUÍMICAS SATECMA, S.A.** under the ISO 9.001: 2000 and ISO 14.001: 2004 standards.

** The information contained in this data sheet, as well as our advice, both verbal and written or through tests carried out in our internal laboratories or in external laboratories, are given in good faith based on our experience and the results of the tests, without that serve as a guarantee. Our recommendations do not exempt from the obligation to know in depth the application of the product to be used before proceeding to its use and to carry out previous tests if it is doubtful the suitability of these for any work or application. The application, use and handling of our products are out of our control and therefore, under the responsibility of the one who proceeds to its application. The person making the use of the product will therefore be responsible without observing the instructions indicated here. **

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