



This product has been granted the European conformity mark  (System 2+) PRODUCT No.: 4198

TECMA PAINT-TERMIC FAHRENHEIT 10.8 **INSULATING AND WATERPROOFING ELASTIC CERAMIC COATING**

INTRODUCTION:

After many years of research, the R+D+I department of **INDUSTRIAS QUÍMICAS SATECMA, S.A.** is now able to bring to the marketplace a ceramic particle, acrylic coating designed to be used as a brand new, state-of-the-art and effective thermal insulation waterproofing material. It waterproofs any type of roof or surface that needs special protection and it fulfils two purposes: it provides waterproofing and it lowers the indoor temperature. Our **TECMA PAINT-TERMIC FAHRENHEIT 10.8** product is the ideal choice when you need to protect a roof or a wall. It also lowers their temperature as its formula incorporates hollow, spherical crystals identical to those used by NASA to create insulating shields to protect space shuttles from the extreme temperatures caused by friction on entering the earth's atmosphere. These granules reflect and disperse heat waves.

DESCRIPTION:

A coating that disperses water and which incorporates hollow, spherical particles of non-porous and extremely pure, resistant glass. Once dry the product forms a membrane which provides insulation and waterproofing. Designed to be used on roofs and outdoor decks. Thanks to its insulating properties, when it is applied to a surface the indoor temperature is about 6 to 8°C less than the outdoor temperature (in mineral surfaces and more than 15°C less in metal surfaces). There is a notable reduction in the temperature inside a building which in turn improves the performance of air conditioning and cooling systems. When used in conjunction with air conditioning equipment it reduces their energy consumption. In short, it saves money! The essence to this coating is the isolating power provided by thousands of spherical particles of glass that combine with other fillers and state-of-the-art resins to provide genuine thermal insulation. These particles bind together with each other to create a large, homogenous layer which, together with the product's low thermal conductivity, creates a membrane that protects the surface of roofs and decks from the heat of the sun. This in turns reduces the temperature inside the roof or deck by between 6 and 8°C (in mineral surfaces and more than 15°C less in metal surfaces), thereby providing a more comfortable atmosphere which in turn improves performance in livestock farms where thermal stress can sometimes lead to animals dying or to low productivity.

TECMA PAINT-TERMIC FAHRENHEIT 10.8 forms an elastic membrane that allows the surface onto which it is applied to dilate naturally, without cracking. It is resistant to ultraviolet rays and it reduces potential water and wind damage. It also reduces damage caused by corrosion and rusting, it makes the roof look clean and it extends the life of metal roofs. In wintertime the insulation it provides can preserve between 25% and 30% more heat beneath the roof or the roof deck. It therefore insulates against both cold and heat.



CHARACTERISTICS:

Nature	Water dispersion
Cleaning thinner and solvent	Water
Application	Brush, roller, airless gun
Temperature of application	from +10 to +35°C
Surface drying time (EN ISO 1517)	1 hour
Recommended amount	From 1 to 1.5 l/m ²
Water vapour permeability (EN ISO 7783-1/-2) (Equivalent air barrier)	S _D < 5 metres Class I (EN 1504-2) Permeable to water vapour
Water permeability (EN 1062-3)	< 0.1 kg/ m ² .h ^{0.5} Water impermeability (EN 1504-2)
Adherence on a concrete structure (EN 1542)	>0.8 MPa
Dangerous substances (EN 1504-2)	Complies with section 5.3 of standard EN 1504-2
Conductivity of hollow spheres	0.07 W/m K
Colour	White

ACCREDITATIONS:

This product has been granted the European conformity mark CE : this product complies with standard EN 1504-2 (System 2+) and with European construction products regulations.

PROPERTIES:

Important insulating coating. Allows surfaces to breathe naturally. Reduces temperatures beneath roofs and decks by between 6 and 8°C (in mineral surfaces and more than 15°C less in metal surfaces). In wintertime it preserves between 25% and 30% more heat compared to the roofs of buildings which lack such insulation. Excellent outdoor durability. Waterproof, it does not crack or fracture due to thermal expansion.

USES:

Roofs and decks made of cement fibre, tile, sheet metal, mortar etc. Homes, industrial buildings, warehouses, sheds in which poultry, sheep, pigs or cows are housed, the tops of vehicles such as lorries, buses, caravans and indeed anywhere there is a need to reduce the level of heat of a roof deck or a roof and to lower the indoor temperature quickly and economically.

SURFACE PREPARATION:

The surface must be dry, clean and free from grease, oil, any adhesions, dust or any other contaminant. Any grout on cement surfaces must be removed using a mechanical grinder or a chemical grout remover such as **DESCA-2F**. Once this has been done, rinse the surface with lots of water. In the case of metal surfaces, use a heavy brush to remove rust and then apply **TECMA PAINT OX** to improve adherence and its rust-resistant properties.



Were the surface to be contaminated with algae, fungi or moss, then before you do anything else use our **BACTA OFF** product to remove them. Then wash the surface and let it dry.

Cement surfaces should be rather rough and porous to ensure that the coating adheres properly.

INSTRUCTIONS:

In the case of cement surfaces, dilute the first coat by adding 10-15% water to allow the coating to penetrate into the surface properly.

Do not dilute the product when treating any other kind of surface, primed metal sheets, for example. You will however have to apply at least two or three coats. To obtain a perfect thermal insulation and an equally perfect waterproofing, we recommend that you apply 1 - 1.5 l/m², in several coats.

SPECIAL RECOMMENDATIONS:

- Do not apply when the temperature falls below 10°C nor when the relative humidity exceeds 80%.
- Do not apply out of doors if there is any threat that it might rain before the product can dry (which takes at least 6 to 8 hours).

ADVANTAGES:

- Waterproofing
- It reduces the temperature of roofs and roof decks by between 6 and 8°C (in mineral surfaces and more than 15°C less in metal surfaces)
- The perfect solution for poultry farms, hen houses and indeed for all sorts of farm buildings
- Energy savings of up to 40%
- Easy to apply
- No unpleasant smells and no solvents
- Long-lasting
- Reduces expenditure on air conditioning systems
- Ideal for water pipes
- Prevents corrosion and rust, and when applied to piping or sheet metal it leaves them looking clean and it prolongs their useful life.

PRESENTATION AND STORAGE:

TECMA PAINT-TERMIC FAHRENHEIT 10.8 comes in 10 and 20 litre plastic containers. Store the product in a cool place protected from frost and high temperatures. When in its original, hermetically sealed containers, the product will keep for six months.

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

The information contained in this technical specifications sheet, together with our advice whether verbal or written or given during tests carried out in our in-house laboratories or in external laboratories, is given in good faith and is based on our experience and on the results of such tests. Such information and advice does not however constitute a warranty. Before using the product, the user should be fully aware of how it should be applied and preliminary tests should be carried out should there be any doubts as to the suitability of the product for any work or application. Our recommendations do not exempt the user from this obligation. The application, use and handling of our products are beyond our control and are therefore the responsibility of the user. The person who makes use of the product and who does not observe the instructions contained hereinabove shall be responsible for his or her own actions.

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