

Product with the European mark of conformity 

PRODUCT N.º : 3.198

TECMADRY® TERMIC

Waterproofing mortar for thermal insulation

DESCRIPTION:

TECMADRY® TERMIC is an insulating and waterproofing mortar based on cement, lightweight aggregates and special additives, specifically designed to protect thermally and against humidity, as well as to decorate the surfaces on which it is applied. **TECMADRY® TERMIC** does not alter the water vapour exchange conditions of the substrate, thus allowing its natural transpiration.

FIELD OF APPLICATION:

In general, the use of **TECMADRY® TERMIC** is recommended for energy refurbishment of building enclosures, and specifically:

- As an insulating mortar in different waterproofing work, combined with **TECMADRY®** coating. Always apply the **TECMADRY®** coating first, let it dry for a minimum of 12 hours, prime the **TECMADRY®** substrate with **CRYLADIT**, and then apply **TECMADRY® TERMIC** in the following 60 minutes. Never apply **TECMADRY®** over the **TECMADRY® TERMIC** coating, or any other mortar (consult our Technical Department).
- In the different waterproofing and facade protection work it can be then coated with our facade paints (**TECMA PAINT SILICATOS**, **TECMACRIL FACHADAS**, etc.) and even with the **TECMA PAINT TERMIC FAHRENHEIT 10.8** coating.
- Waterproofing and thermal protection of basements and foundations, galleries, walls, etc., especially to break the thermal bridge with the exterior and avoid condensation dampness. To obtain a final decorative coloured finish, **TECMA PAINT SILICATOS** is recommended to be applied afterwards.

ADVANTAGES:

- The use of **TECMADRY® TERMIC** improves the insulation of building enclosures, enabling energy savings on indoor climate control.
- It prevents condensation dampness due to breaks in the thermal bridge.
- Ideal for regulating and augmenting surfaces, improving their thermal and acoustic insulation.
- Waterproof coating permeable to water vapour, allowing the transpiration of the support.
- Great application performance.
- Easy to use. Only requires kneading with water.

SUPERFICIAL PREPARATION:

Surfaces must be clean of any contaminants such as grease, oil, release agent residues, grout, dust, sand, disintegrated and poorly adhered materials, etc. Before applying **TECMADRY® TERMIC** to mortar and concrete surfaces, they must be moistened with water. In order to improve the adherence of the product it is recommended to previously prime the support with **CRYLADIT**, applying **TECMADRY® TERMIC** before 60 minutes have elapsed.

INSTRUCTIONS FOR USE:

Homogenize the contents of the bag before kneading by turning it face down and face up several times. Mix all the contents of the bag with water in each application for a better homogeneity of the mixture. Mix **TECMADRY® TERMIC** with clean water in a suitable container and knead until a pasty and homogeneous consistency is obtained. As an indication, 6.0-6.5 litres of water per 13 kg bag of **TECMADRY® TERMIC (this is approximately 0.45-0.50 litres of water per kg of product)** should be used. Always ensure that the mixture is a paste free of lumps and as homogeneous as possible. It is recommended to make the mixture with a mechanical mixer. The mixture should then be left to rest for 5 minutes in order to achieve a better activation of the setting, after which it should be lightly kneaded again. The application time of the mixture is approximately 30 minutes, depending on the environmental conditions.

APPLICATION:

Apply the product with a trowel or even out until a flat and homogeneous surface in the desired thickness is obtained. Allow the product to harden properly and protect from mechanical aggressions during the first few days. To improve the final surface finish, it can be smooth polished or sanded after 24 hours. In case of a decorative finish with paint, allow to cure for a minimum of 3-7 days depending on the environmental conditions.

SPECIAL APPLICATIONS:

When it is desired to enhance mechanical resistance, impermeability and adhesion on certain surfaces, **TECMADRY® TERMIC** should be kneaded using a solution of water and **CRYLADIT** in minimum proportions of 1 part **CRYLADIT** to 2 parts water. Higher proportions of **CRYLADIT** will further improve its performance. Before mixing, dilute **CRYLADIT** in water and then add this solution to **TECMADRY® TERMIC**, stirring until a homogeneous mixture is obtained. For a 13 kg bag of **TECMADRY® TERMIC**, approximately 4 litres of water and 2.0-2.5 litres of **CRYLADIT** would be required. It is also possible to improve the adherence of the product on certain surfaces with the use of suitable primers (consult our technical department).

SPECIAL RECOMMENDATIONS:

- The product has a slow setting and hardening. Protect the product from mechanical aggressions during the first few days.
- Do not apply any mortar or coating on the product except those expressly indicated in this technical datasheet (consult the Technical Department).
- Do not apply at temperatures below 5° C or if frost is expected within 24 hours after application.
- Do not apply on frozen or frosted substrates.
- Do not wet the wall excessively when the temperature is low, not reaching 5°C.
- Do not apply on plaster, paint or lime.

CONSUMPTION:

For a correct application, the recommended amount is approximately **0.5- 0.6 kg/m²** and a minimum of 4-5 mm thick. A thickness of up to 10 mm can be applied in a single layer.

COLOURS:

TECMADRY® TERMIC is available in white.

ACCREDITATIONS:

Marked **CE** in accordance with **EN 998-1** and European standards for construction products. Defined as mortar for thermal insulation (T) according to **EN 998-1**.

TECHNICAL DATA:

Apparent density of the powder component	0.53 g/cm ³
Granulometry (EN 12192-1)	0 – 0.5 mm
Application temperature	from +5 to +30 °C
Mix life span ("pot life")	approx.30 minutos
Apparent density of fresh mortar (EN 1015-6)	670 kg/m ³
Apparent dry density (EN 1015-10)	540 kg/m ³
Resistance to compression (EN 1015-11)	CSII
Adhesion (EN 1015-12)	> 0.15 N/mm ² (cohesive break)
Water absorption by capillarity (EN 1015-18)	W1
Water vapour permeability coefficient (EN 1015-19)	μ ≤ 15
Thermal Conductivity (λ) (APPLUS+ Report N°.13/7302-1296)	0.116 W/m.K (T2)

PRESENTATION Y CONSERVATION:

TECMADRY® TERMIC is presented in 13 kg net multileaf paper bags. The product must be kept in the original closed bags. The estimated storage period in the original bags should not exceed 12 months.

TECMADRY® is a registered trademark, property of Industrias Químicas Satecma® S.A.

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