



THERMOSAN ***-F***



FLOAT FINISH TYPE MORTAR FOR THE PROTECTION AND DECORATIVE FINISH OF *THERMOSAN*®

DESCRIPTION

***THERMOSAN*® - F** is an one-component mortar composed of hydraulic binders for the decorative finish of the mortar coating against rising dampness ***THERMOSAN*®**.

APPLICATION FIELDS

- Protection against rain and mechanical damages for ***THERMOSAN*®**.
- Combined with ***THERMOSAN*®**, provides waterproof and decorative exterior finish for façades and walls suffering rising dampness.

ADVANTAGES

- Waterproof against rainwater and permeable to water vapour.
- Its white colour provides a decorative finish, avoiding the need to paint.

APPLICATION INSTRUCTIONS

Surface preparation

***THERMOSAN*® -F** has been designed to be applied as a finish for ***THERMOSAN*®**, which should be at least 7 days old, prior to applying ***THERMOSAN*® -F**. The substrate must be firm, structurally sound, clean and free of grease, oils, fungus, dust, gypsum plasters and paints, and must be damp but avoiding free standing water.

A good levelling of the surface is desirable, removing any excess and filling in voids.

When the surface is very smooth, it is advisable to provide it with a certain roughness by using a chisel for improving the adhesion.

Additionally, a fine layer of ***THERMOSAN*® -F** can be applied, pressing well into the substrate, or applying a slurry coat using a ***MAXBRUSH*** type brush, for ensuring the adhesion to the substrate.

In warm weather conditions, or if the substrate is very absorbent, dampen previously without leaving excess water and wait until the water has been absorbed.

Mixing

It can be done mechanically with a low mixer or stirrer, or it can be mixed manually. Each 25 kg bag of ***THERMOSAN*® -F** requires about 4,0 to 4,5 litres of clean water (16 to 18%). Keep a constant proportion of water per bag.

Add the powder to the water and mix it for about 2 minutes until a homogenous mortar of thick consistency is obtained. Allow it to rest for 5 minutes. Mix again until obtaining the consistency for its application, adding water if necessary. Never add more water than the maximum specified maximum value litres per 25 kg bag as previously indicated.

Application

***THERMOSAN*® -F** is applied in 7 to 12 mm thickness. For greater thickness apply first a levelling layer avoiding to apply excess of material, which is not only anti-economic, but can increase the risk of cracking. Then spread with a trowel or spray with appropriate equipment. Once mixed, the open time for application and levelling is about one hour.

When the mortar has hardened slightly (after 1 to 3 hours, depending on the ambient conditions) it is finished with the float (plastic or wooden) or sponge, etc.

Application temperature

Do not apply at ambient temperatures below

5°C nor if this temperature is expected the following 24 hours. Do not apply on frosted or frozen surfaces.

Curing

Protect **THERMOSAN® -F** from rain with plastics or tarpaulins and from excessive heat by a fine mist spray.

Do not apply when there is risk of rain or frost.

Cleaning

Clean tools with water immediately after use. Once the product has cured, can only be removed mechanically.

CONSUMPTION

THERMOSAN® -F is applied in a thickness of 7 or 12 mm, with an estimated consumption of 1,8 to 2 kg/ m²·mm thickness.

IMPORTANT INDICATIONS

For any application not specified in this technical bulletin or further information, consult our Technical Department.

PRESENTATION

THERMOSAN® -F is supplied in 25 kg bags and it is available in white colour.

STORAGE

Twelve months in its original unopened packaging, in a covered place protected from humidity and frost, at temperatures above 5 °C.

SAFETY AND HEALTH

THERMOSAN® -F is not a toxic product but it is an abrasive compound in its composition. Avoid contact with eyes and skin. Gloves and safety goggles must be used during the mixing and application. In case of eye contact, rinse thoroughly with clean water but do not rub. In case of skin contact, wash affected area with water and soap. If irritation persists, seek medical attention. It is available Safety Data Sheet of **THERMOSAN® -F** by request.

Disposal of the product and its empty packaging must be made by the final user and according to official regulations.

TECHNICAL DATA

Characteristics of the product	
CE Marking, EN 998-1	
<i>Description: Rendering and Plastering Mortars, classified as Renovation Mortar (R)</i>	
<i>Uses: walls, ceilings, columns and partitions in indoor/outdoor construction</i>	
Appearance and colour	White powder
Maximum granulometry (mm)	1,5
Powder mortar density (g/cm ³)	1,20 ± 0,10
Mixing water (% weight)	17 ± 1
Application and curing conditions	
Minimum substrate and environment application temperature (°C)	> 5
Open time at 20 °C and 50% R.H. (hours)	1
Drying time for floating finishing at 20°C (hours)	1 – 3
Setting time at 20°C and 50% R.H. (hours)	
- Initial	6
- Final	8 - 24
Drying time for 2 nd coat application at 20°C and 50% R.H. (days)	3
Technical characteristics	
Density of the cured and dry mortar (g/cm ³)	1,5 ± 0,1
Compressive strength at 28 days, EN 1015-11 (MPa - Category)	11,0 - CS IV
Flexural strength at 28 days, EN 1015-11 (MPa),	4,5
Adhesion and break pattern, EN 1015-12 (N/mm ² - FP)	> 0,5 - A
Adhesion over THERMOSAN® (N/mm ²)	> 0,5
Water absorption after 24 hours, EN 1015-18 (kg/m ²)	≤ 0,3
Capillary water absorption, EN 1015-18 (mm)	≤ 5
Water vapour permeability, EN 1015-19	
- Water vapour permeance (kg/m ² · s · Pa)	19·10 ⁻¹⁰
- Water vapour permeability Λ (kg/m ² · s · Pa)	19·10 ⁻¹²
- Water vapour permeability coefficient μ	10
Reaction to fire, EN13501-1 (Class)	A1
Consumption / Thickness	
Minimum / maximum thickness per layer (mm)	7 – 12
Consumption (kg /m ² · mm thickness)	1,8 – 2,0

GUARANTEE

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