



THERMOSAN®

CEMENT-BASED MORTAR FOR COATING SUBSTRATES DAMAGED BY RISING DAMPNES

DESCRIPTION

Pre-mixed mortar composed of hydraulic binders and light aggregates, de-humidifying and sound absorbent, which forms a coating for the restoration of substrates damaged by rising dampness.

USES

- Elimination of rising dampness or the condensation caused by cold wall effect.
- It is applied over damp substrates, interior or exterior, underground or not, for walls and wall footings.

ADVANTAGES

- Very permeable to water vapour.
- Delays the appearance of salts on concrete and masonry.
- Very low thermal conductivity provides insulation against extreme changes in temperature, preventing the cold wall effect.
- Its self-ventilating property drains and dries the substrate.

APPLICATION INSTRUCTIONS

Preparation of the substrate. THERMOSAN has been designed to be applied over practically any firm, structurally sound, clean surface, free from grease, oils, gypsum plaster, fungus, dust or paints. Do not apply on Eliminate any remains of previous renders at least 90 cm. above the highest point of the capillary dampness. If flakes or scaling are present they should be eliminated by patching with THERMOSAN without pressing excessively. Over very uneven, weak or non-absorbent substrates mechanically fix a chicken mesh reinforcement on the substrate, prior to the application of the THERMOSAN mortar. The substrate can be damp yet with no superficial water. Dampen the surface slightly if temperature is high.

Mixing. THERMOSAN is mixed only with water. Each 25 kg. bag of THERMOSAN requires between 4.5 and 5 litres of clean water. (18 to 20 %). Use a mixer or mechanical stirrer. Add the powder to 4 - 4.5 litres of water and mix for about 10 minutes. Allow the product to rest for 5 minutes. Remix again for another 5 minutes, adding between 0.25 to 0.5 litres of water until obtaining an appropriate consistency for its application. Manual mixing or the use of a concrete mixer does not furnish enough mixing to provide the product with all of its properties. If done by hand, do so for 20 minutes in a semi-dry consistency, afterwards add total mixing water. Never surpass the maximum amount of water indicated.

Application. Apply a thin first layer, pressing well or a slurry coat with MAXBRUSH type brush to improve adhesion. Before this coat dries, spread the mortar with a trowel by spattering on the surface without pressing excessively, or by mean of a spray gun, to a thickness between 2 to 5 cm. and in a single layer if possible.

If greater thickness is required, allow one day before applying the another layer over it, which will previously be left rough to ease the bonding of the next one. Finally if it is to be left as finished surface

in interiors, it can be smoothed with an aluminium straight edge, without pressing excessively so as not to reduce the porosity of the mortar.

Application temperature. Do not apply below 5 °C or above 30 °C. During the 24 hours following the application these limits should not be surpassed.

Curing. The application must be protected from rain with plastics or tarpaulins and from excessive heat with damp cloths or light water spray.

Allow the product to set for at least 7 days prior to the application of the final coating, THERMOSAN – F, or any other type of finish which is very permeable to water vapour.

Cleaning. Clean tools with water before the product sets. Once it hardens, can only be removed mechanically.

CONSUMPTION

THERMOSAN is applied with thickness between 2 to 5 cm. in a single coat if possible, with an estimative consumption of 1 to 1,2 kg/ m²/ mm thickness and depending on substrate conditions. A higher thickness coat provides a better ventilation of the substrate.

TECHNICAL DATA

Mixing water (% weight /w. Prod.)	18 – 20
Density of the mix (kg / dm ³)	1.4
Open time (hours, 20 °C)	1
Initial setting time (hours approx., 20 °C)	6
Final setting time (hours, 20 °C)	8 a 24
Coverage (kg / m ² / mm thick.)	1.0 a 1.2
Capillary absorption (gr / dm ² min ¹ / ₂)	< 2
Thermal conductivity coefficient λ (W / m K)	0.300
Compression strength at 28 days (MPa)	8
Flexural strength at 28 days (MPa)	3
Adhesion (MPa)	0.5
Modulus of elasticity (MPa)	8,000
Water vapour permeability, ASTM E-96	
- Value of equivalent air thickness, R (m)	0,10
- Permeability (g/mm Hg x h x m ²)	0.927

PACKAGING

THERMOSAN is supplied in 25 kg. bags, available in grey colour.

STORAGE

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

SAFETY AND HEALTH

THERMOSAN is not a toxic product in its composition, but as any other cementitious product, in its application the usual precautions with these type of products should be observed.

Avoid contact with eyes and skin by using gloves, safety goggles and mask. Contact with eyes and skin should be thoroughly rinsed with abundant clean water. If irritation persists, see a doctor. It is available Safety Data Sheet of THERMOSAN by request.

GUARANTEE

The information contained in this leaflet is based on our experience and technical knowledge, obtained through laboratory testing and from bibliographic material. DRIZORO reserves the right to introduce changes without prior notice. Any use of this data beyond the purposes expressly specified in the leaflet will not be the Company's responsibility unless authorised by us. We shall not accept responsibility exceeding the value of the purchased product.



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Company certificated: ISO 9.001 & ISO 14.001

