

Chelfix TP570

Special cement based,
thermal insulation plaster



Product Description Chelfix TP570 is a single component, multi-purpose, highly effective inner and exterior facade insulation material in plaster form which consists of environmentally friendly additives and special modified aggregates with special granulometry that can be applied by hand or plastering machine. The open cell porous natural aggregate, in its mixture, provides HEAT, SOUND, FIRE insulation and has high diffusion ability. It also makes water insulation at the same time because of its positive direction water repellent structure.

- Areas of Application**
- It is used on the interior and exterior surfaces on walls or ceilings and on bricks, block, pumice, aerated concrete blocks, plaster board, fiber cement board, OSB, restoration of historical masonry buildings and gas concrete surfaces.
 - Can be used on rough and finishing plaster.
 - Concrete bridges, columns, and concrete walls.
 - For exposed concrete.
 - Repairing of corners and edges.

- Advantages**
- Save up to 50% from your heating and cooling costs.
 - It is 100% natural and it is not harmful to the environment and human health.
 - Shrinkage controlled polymer modified structural plaster.
 - Single component, easy to apply.
 - Provide heat, sound, water and fire insulation with only one product.
 - Contributing to budget by saving in heating and cooling expenses.
 - No formation of heat bridges due to its inarticulate structure.
 - Extremely low permeability to water, providing excellent protection to steel reinforcements and host concrete.
 - Providing sound insulation inside the buildings and between the rooms in hotels, hospitals, schools, office places and all buildings.
 - Thixotropic properties allowing extra high build for vertical and overhead applications.
 - Suitable for internal and external applications.
 - Cost effective, hand applied no formwork is required.
 - No losses in strength of the building due to application without bloating.
 - High fire resistance.
 - Free from hazard shine materials and not carcinogens.
 - Light, so not imposing extra load on the building.
 - Increasing the value of the building.

Application Instructions

Surface quality: Surfaces should be clean, smooth, free from all kinds of dust, oil, dirt, rust, mould oil, detergents, etc. Weak parts on the surface should be removed.
Surface Preparation: If there is any defects, cracks, etc. that require's repair on the application surface, it should be repaired before the application. Styronit Compact Primer should cover the application surface 100% and be completely dry.
It is applied directly to surfaces such as brick, aerated concrete blocks and bims block.
Mixing: adjust the required water amount according to the weather conditions.

Application Instructions

The required amount of water is put into a clean mixing bucket with the help of a scale (for 12 kg kraft bag, approximately the required water is 6 – 7.5 lit). Add Chelfix TP570 slowly and mix for approximately 4 minutes with a low speed mixer with 400-500 rpm until the mixture is free from pellets. The prepared mortar is applied to the previously moistened surface with a trowel. For the applications for more than one layer, each layer should be applied with a thickness of maximum 2 cm and each layer should be applied after the previous layer has hardened. The previous layer should be moistened before the new layer is applied. It can be applied by hand trowel or machine in large areas.

Application Notes / Restrictions

- Application should be done under the direct sunlight, frost, while raining and strong blowing of the wind. Also it should be protected from rain, frost, strong wind and direct sunlight after the application.
- Operating and reaction times of Chelfix TP570 are affected from environment and surface temperature as well as the relative humidity in the air. The reaction slows down at low temperatures and high temperatures speed up the reaction thereby cold water should be used in hot weather conditions and hot water should be used in cold weather conditions.
- Wear protective clothing, gloves and eye protection.
- Do not apply at temperatures below +5 °C nor above + 40 °C.
- Just after the application, the tools and equipment used should be cleaned by water.
- Chelfix TP570 can be cleaned from the surface only mechanically after hardening.

Technical Data

General Information	
Material Structure	White / Granular
Product Description	light coarse/fine plaster mortar (LW)
Shelf Life	12 months in dry environment in unopened packaging.
Package	12 kg kraft bag
Application Information	
Implementation Process	Min. 30 min.
Application Ground Temperature	(+5° C) - (+40°C)
Average Grain Size	≤ 2 mm
Application Thickness	For each layer 1 - 2 cm
Performance Information	
Dry Bulk Density (TS EN 1015-10)	800 ± 100 kg/m ³
Compressive Strength (TS EN 1015-11)	CSII, (1.5-5.0 N/mm ²)
Bond Strength (TS EN 1015-12)	≥ 0,30 N/mm ² (FP:B)
Capillary Water Absorption (TS EN 1015-18)	W1, < 0.4 kg/m ² min
Vapor Diffusion (TS EN 1015-19)	< 15 μ (5-6)
Thermal Conductivity (EN 1745)	0.18 (p:%50 λ10 dry) W/m.k (value A.12)
Mortar Density (kg/lit)	1.17
Reaction to Fire (TS EN 13501-1)	A1

Typical values were obtained as a result of experiments at + 20 ° C, 50% relative humidity conditions.