THERMO PLAST

Thermal & Sound Insulation Plaster for Internal/External

THERMO PLAST is a premixed thermal and sound insulation plaster for internal and external use that complies with EN9981-Class T1. It is manufactured from expanded perlite, natural minerals and ordinary Portland cement combined with eco friendly performing additives making it suitable for one coat machine/hand application. It is safe, sound absorbent, non-combustible, with extra ordinary thermal insulation properties. **THERMO PLAST** is totally inorganic and prevents the growth of mould, fungi and micro-organisms.

Features

Superior Thermal Insulation
Resistant to Acid Rain
Excellent Sound Insulation
Protect the substrate
Excellent adhesion to substrates
Water Vapour permeability
Non Flammable
Ecological-Free of plastics and organics
No Fungi and Algae Growth (pH 12)
Water Repellent – Hydrophobic
Easy to apply
Long Lasting – permanent bond

Application

THERMO PLAST is suitable for application to most internal and external surfaces with good suction such as concrete walls, concrete blocks, clay brick AAC blocks and rus protected rib expanded metal lathing etc. For highly absorbent and very smooth dense surfaces, a grip primer should be used. For surface consisting of materials having widely varying physical properties, approved reinforcement such as fiber glass mesh or galvanized expanded steel mesh are to be used. In all these cases a spatter dash coat is recommended. The surface must be clean, dry and free and other contaminants which may affect the adhesion of the plaster.

Mixing

THERMO PLAST can be very easily mixed and applied with plastering machine that mix and spray in one operation. The machine, tools and water used for mixing of the plaster must be kept clean and free of any other impurities. The plaster must be mixed only with water. If necessary, the plaster may be mixed by continuous mixer and applied by conventional methods.

Laying

The work should not be started until the surface to be applied has been prepared. **THERMO PLAST** is sprayed on to the prepared surface in the form of a ribbon by handling the nozzle of the plastering machine fairly close to the surface (about 20cm). The movement of the spray gun is horizontal (top to bottom) and the layers must be closed together. After covering the surface to the required thickness, an aluminum screed and a trowel are used to screed the plaster to a plain surface and fill the small hollows. Once the plaster is sufficiently stiff, any

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high points are removed with help of the edge of a long trowel in order to get an acceptable plain surface. At this stage the surface of the plaster should display a slightly open texture.

Finishing

Finishing should be preferably delayed until the plaster work has dried out thoroughly. **THERMO PLAST** can receive all kind of finishing such as painting, textured coating etc.

Delivery & Storage

THERMO PLAST is delivered in 20 kg paper bags. The plaster should be stored in dry conditions. The shelf life of material by proper storage is approx. 6 months.

Coverage

One bag of 20 kg mixed with 17.5 ltr of clean water can deliver about 50lit mortar which can cover approx:

3.50 m^2 @10mm thickness
2.30 m^2 @15mm thickness
1.75 m^2 @20mm thickness

TECHNICAL DATA

Type	Powder
Grading	1.2mm
Color	Grey(other colors on request)
Bulk density	450 kg/m^3
Inflammability	No
Health Hazard	No
Mixing Ratio (water/dry material)	0.88
pH	>12
Water retention of the mix	Very good 1*
Pot Life	>3 hours
Open time after application	1-2 hrs 2*
Minimum thickness	10mm
Maximum thickness (one coat)	30mm
Cure Time	14 days
Compressive strength	2.1 N/mm^2
Flexural strength	0.9 N/mm^2
Tensile adhesion strength	0.16 N/mm^2
Water absorption	0.257 kg/m^2.min 0.5
Water Vapour permeability co-efficient (u)	4.48
Thermal Conductivity	0.07 W/m.K
Sound Transmission class (STC)	59 dB(500 HZ @4cm thickness)
Weight of hardened mortar	619 kg/m^3

1* Depend on the absorption of the back ground

2* Depend on the weather conditions and the absorption of the back ground

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