

MONNELI PLASTOTHERM

Adhesive & Plaster for EIFS Insulation System

Product Description

A high performance, polymer modified Portland cement base which is designed as a synthetic stucco finish and adhesive for expanded polystyrene insulation boards. It is also ideal for embedding fiber glass mesh fabric wherever required.

Uses

- EPS Board (Expanded Concrete Backer Board)
- Masonry
- Fiber mesh reinforced concrete backer board
- Brick
- Metal wire lathe
- Clean and unpainted concrete
- Exterior grade gypsum sheathing
- Embedding fiberglass reinforced mesh fabric

Advantages

- Excellent adhesion to concrete substrates
- Economical
- Impact resistant
- Single component, requires on site addition of water
- Crack resistant
- Reduces need for control joints
- Water resistance
- Levels surface imperfections

Instructions for Use

Surface Preparation

Remove all loose concrete, grease, oil, paint, dust, form release agents or any other material that might affect proper bond.

Mixing

Pour into container about 5.5 Liters of clean water then slowly add 25kg of PLASTOTHERM and mix till obtaining a homogeneous mix using a slow speed electric drill. Mix till a smooth, trowelable consistency is obtained. Allow the mix to stand for 5 minutes then remix again. Do not use any additives. Do not mix more material than can be applied within product open time. Partial mixing is not recommended.

Application

To fix the insulation board to the wall, apply spots of material to the back of the board at least 5 mm thick and 50 mm in diameter, making sure that the material covers minimum 50% of the board. An alternative method is to cover the entire back of the insulation board with the product using a 10 mm notched trowel. Place insulation board on wall and push firmly. Using a block of wood, apply equal and even pressure to allow maximum bond to be achieved. After fixing the insulation board to the wall, wait for 24 hours before coating the face of the insulation board.

Cut the mesh fabric into pieces that are manageable. For lightweight to medium weight fabrics, allow for a 50 mm overlap. Heavy mesh fabrics do not need to be overlapped, however, care must be taken to fix the edges firmly together. Using a flat stainless steel trowel, apply Base Coat of PLASTOTHERM to the entire face of the insulation board to a uniform thickness of 2 – 3 mm. Immediately place the reinforcing mesh against the wet PLASTOTHERM mixture. Trowel from the center to the edges with the curve of the mesh against the wall, avoiding wrinkles. Apply until the mesh is fully covered and not visible. The overall minimum Base Coat thickness must be sufficient to fully embed the reinforcing mesh. Allow Plastotherm coat with embedded reinforcing mesh to dry hard (normally 24 hrs.) prior to application of decorative top coat.

Curing

PLASTOTHERM is self-curing. Do not mist with water or damp cure. Under average drying conditions +25°C and 55% R.H. PLASTOTHERM will dry in 24 hours.

Technical Data

Properties	Results
Appearance	Grey or white powder
Density at 25°C	1.8 kg/L
VOC	0.6g/L
pH in water dispersion at 25°C	>12
Complete curing	28 days
Water resistance	Very good
Water absorption	0.16 (Kg/m ² .h1/2)
Resistance to moisture	Excellent
Resistance to ageing	Excellent
Compressive strength after 28 days	Up to 15 N / mm ²
Tensile adhesion strength 28 days standard conditions	0.15 N/mm ²
28 days standard conditions +2 days water immersion + 2 h drying	0.1 N/mm ²
28 days standard conditions + 2 days water immersion + 7 days drying	0.12 N/mm ²
Toxicity	Non-toxic
Vertical sliding	None
Reaction to fire	Non-flammable

All values are subject to 5-10 % tolerance

The information in this Technical Data Sheet is based on Colmef Monnelli's experience. Colmef Monnelli does not accept any liability arising from the use of its products as it has no direct or continuous control over where or how its products are applied. All Colmef Monnelli's Data Sheets are updated on regular basis. It is the user's responsibility to obtain the latest version.

Cleaning

Tools and equipment should be cleaned with water immediately after use. Hardened materials should be mechanically removed.

Applicable Standards

- ASTM C 518
- DIN 52617
- UNI EN 1015-11

Consumption

Each 25kg bag will cover approximately 5 square meters of surface at 3 mm thickness.

Packaging

PLASTOTHERM is supplied in 25kg bags

Storage

Store in dry covered place in the original closed bags. In these conditions, the product shelf life is 12 months from production date.

Health & Safety

PLASTOTHERM is a cement-based product.

During application, wear appropriate protective clothing, goggles, gloves and respiratory equipment if necessary.

In case of contact with skin, rinse with water and again wash thoroughly with soap and water. In case of contact with eyes, rinse with plenty of water and seek medical advice accordingly.

If ingested, obtain medical attention immediately. Do not induce vomiting.

DUBAI
ABU DHABI
KSA
ITALY

P.O. Box 123808 Dubai UAE
P.O. Box 127326 Abu Dhabi, UAE
P.O. Box 335896 Code: 11383 - Riyadh KSA
Z.I. Ponte d'Assi 06024 Gubbio (PG)

T. +971 4 8803488 F. +971 4 8803450
T. +971 2 5511949 F. +971 2 5511749
T. +966 1 2654277 F. +966 1 2654335
T. +39 75 9221297 F. +39 75 9221174

PLASTOTHERM
Technical Data Sheet
Edition: January 2020
Revision: 02

colmef@colmef.ae

www.colmef-me.com