

Technical Information

Permarock Lamella Adhesive



Product Description

Field of Application:

Permarock Lamella Adhesive is a high polymer content, flexible, cement-based adhesive compound for bonding thermal insulation boards to dense mineral-based substrates (e.g. in-situ and pre cast concrete, engineering brick, tiled surfaces) and suitable sheathing / carrier boards and as part of Permarock External Wall Insulation (EWI) Systems. Permarock Lamella Adhesive is suitable for bonding insulation boards together in multi-layer insulation systems.

Properties:

- Polymer-modified cement-based adhesive gives good adhesive strength on smooth surfaces including common brick, dense and lightweight block, aerated block, cementrenders, mineral sheathing boards, plywood, OSB, etc.
- Bonds to engineering brick and tiled surfaces.
- Limited combustibility. Non-flammable.
- Flexible and highly stable.
- Long open time.
- Water vapour permeable.

Colours:

- Cement Grey

Storage:

Store off the ground, dry and protected from moisture

Shelf Life:

6 months after manufacture date

Product Code:

RE/LAMELLA

Pack Size:

25kg sacks

Technical Data:

Fire Behaviour:	A2-s1,d0 (EN 13501-1) *
Typical Adhesive Strength:	
Common Brick:	0.74 MPa
Engineering Brick:	1.27 MPa
Concrete Block	0.99 MPa

* when tested / assessed as part of the Permarock Mineral Fibre external wall insulation system

Application

Suitable Substrates:

All mineral substrates, e.g. masonry of manufactured cement block, clay brick, sand-lime brick, dense and no fines concrete, autoclaved aerated concrete (AAC), cement-bonded particle board, fibre-reinforced cement board, calcium silicate board, new mineral renders / plasters, as well as cementitious reinforcement layers of EWI / ETICS, and sound, existing renders / plasters.

Preparation of Substrates:

Substrates must be flat, even, clean, firm, sound and free from all materials that may prevent good adhesion, such as formwork oil residues.

Remove unsound, flaking / peeling or otherwise defective coatings. Hack off loose, cracked or otherwise defective renders back to a sound substrate and reinstate with Permarock Dubbing-out Compound.

Substrates may be temporarily moist but not wet. Substrates must be frost-free. Highly absorbent, sandy or chalking substrates should be thoroughly cleaned back to a sound solid base and treated with Permarock Bonding Agent.

Remove moss, mildew, algae, mould, etc., by brushing and / or pressure washing and treat the surface treated with Permarock Moss & Mould Remover.

Voids or deep joints in the substrate should be filled flush to the surface.

Preparation of Material:

The material can be mixed with continuous mixers (automatic mixers) and can also be prepared manually.

For manual preparation, the contents of each 25 kg bag of Permarock Lamella Adhesive is gradually added, with mixing (slow speed electric paddle mixer) to approx. 4 litres of clean water in a clean, smooth bottomed mixing vessel. The material is mixed for 3 to 4 minutes and until a smooth, homogeneous mixture, free of lumps, is achieved.

The mix should be allowed to stand for ten minutes before mixing for a further minute. At this stage, small quantities of tap water can be added to adjust to a working consistency if required.

Consumption:

Bonding of insulation boards: approx. 4.0-6.0 kg/m².

Consumption values vary depending on the roughness of the substrate and method of application. The exact rate of consumption is best determined by a trial application.

Adhesive Bonding of Insulation Boards:

Apply Permarock Lamella Adhesive using a stainless steel trowel or serrated / notched trowel.

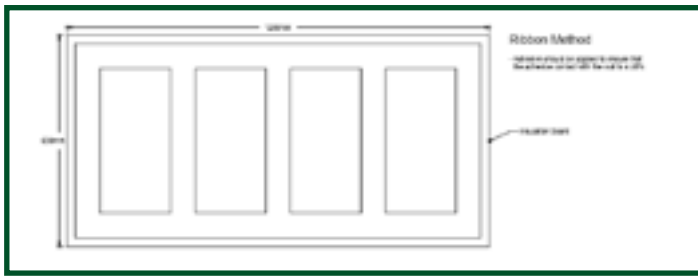
The material can be applied using the 'ribbon' method, the 'ribbon and dab' method, or by serrated / notched trowel to achieve 100% adhesive coverage

Serrated Trowel: Permarock Lamella Adhesive is applied by 10 mm - 15 mm serrated / notched trowel as a continuous layer across the back of the insulation board to achieve 100% adhesive coverage.

The method is used with Permarock Mineral Fibre Lamella Insulation boards (1000 mm x 200 mm), where insulation boards are to be adhesively bonded only, or where full contact with the substrate is required, for example when used as fire barrier insulation with Permarock EPS Premium or Phenolic systems.



Permarock Lamella Adhesive can also be used with Permarock EPS, EPS-Premium, PIR, Phenolic and Mineral Fibre Insulation boards (1200 mm x 600 mm) when applied onto flat surfaces such as cement-bonded particle board, fibre-reinforced cement boards, plywood, etc. Ribbon method: Permarock Lamella Adhesive is applied as a continuous ribbon to the full perimeter of the back of the board. (1200mm x 600mm) Additional ribbons of material are applied at ca. 300 mm centres.



Advice

Further details:

See material safety data sheet

Adjust the thickness of the applied material to the tolerances of the substrate so that the boards have been pressed into place against the wall surface, a contact area of at least 40% is achieved.

This method is most suited for the application of insulation to uneven surfaces.

Pot Life:

Approx. 2-3 hours, depending on water content and weather conditions.

Drying / Curing Time:

Approx. 2-3 hours, depending on water content and weather conditions.

At 20°C and 65% RH the adhesive reaches sufficient strength to allow the application of insulation fixings after ca. 24 hours, and is thoroughly dry and ready for stress after 2-3 days.

Lower temperatures prolong curing / drying times.

Working Temperature:

Permarock Lamella Adhesive should only be used when the material, surface air temperature at the workface are 3 °C and above on a rising thermometer. Substrates must be frost-free. Cease work if the temperature reaches 5°C on a falling thermometer. Do not apply onto sun heated surfaces or frozen surfaces or during rainfall or when rainfall or frost are imminent. Do not work with the material when surface, air or material temperature rises to 30°C.

Protection:

Protect adjacent surfaces. Remove splashes immediately with clean water. Clean tools immediately after use with water.

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