

# Technical Information

## Permarock Bedding Mortar



### Product Description

#### Field of Application:

Permarock Bedding Mortar is a high-performance, polymer-modified, cement-based reinforcement layer render supplied as a mineral dry powder pre-mix, requiring only the addition of water and mixing on site. The material can be applied by trowel or using suitable spraying equipment. Permarock Bedding Mortar is used with Permarock alkali-resistant coated glass fibre meshes to form the reinforcement layer of Permarock External Wall Insulation and Permarock Exterior Render systems.

The mixed material is designed for application by trowel or by machine.

#### Properties:

- Easy to prepare and use.
  - Good handling characteristics
- High bond strength
- Low combustibility. Non-flammable
- Hand or machine application
- Weather-resistant
- Flexible
- High water vapour diffusion
- Highly stable
- Ecologically compatible
- Low chromate content
- Excellent adhesion to Permarock EPS, EPSPremium, PIR, Phenolic, Mineral Fibre and Mineral Fibre Lamella insulation boards.
- Excellent adhesion to mineral carrier boards for render rainscreen applications

#### Storage:

Store in closed sacks, off the ground, dry, and protected from moisture. Avoid frost.

#### Shelf Life:

6 months after manufacture date.

#### Packaging:

25 kg sacks

#### Colour:

Cement Grey

#### Product Code:

RE/BEDDING MORTAR

#### Technical Data:

Fire Behaviour:	A2-s1,d0 (EN 13501-1) *
Water vapour diffusion resistivity (BS7374:1990)	1-1.5 MNs/g @ 8 kg/m <sup>2</sup>
Density:	approx. 1400 kg/m <sub>3</sub>
Hygrothermal performance (MOAT 22):	Passes
Freeze / thaw behaviour:	stable to -20°C
Thermal conductivity:	< 1 W/mK.
Consumption:	approx. 3.5 - 5.0 kg/m <sub>2</sub> per coat

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



## Application

### Preparation of Substrates:

Masonry, concrete, brickwork or sound, existing coatings must be clean, dry, firmly adherent and free from all substances that may prevent good adhesion, e.g. form release oils, etc.

Remove unsound flaking, peeling or otherwise defective coatings. Clean the surfaces. Highly absorbent mineral substrates should be treated with Permarock Bonding Agent.

Mineral sheathing board surfaces must be clean, dry, flat and suitably supported by metal or timber support framing. Fixings must be non-corrodible and flush with the board surface. Surfaces affected by mildew, mould, algae and the like should be cleaned and treated with Permarock Moss and Mould Remover.

Insulation board surfaces must be flat, clean, dry and free from frost. If necessary, abrade surface irregularities to achieve a smooth surface. Remove adherent dust.

Note: EPS insulation that has been exposed to UV may become friable. Weak surface layers must be removed back to a sound sub-surface layer prior to applying renders.

### Preparation of Material:

The material can be used with most types of continuous mixers and can also be prepared manually.

For manual preparation, Permarock Bedding Mortar is prepared by the addition of the dry powder premix to clean water in a suitably sized, smooth walled, flat bottomed mixing vessel. Mix only full bag quantities. Do not mix part-bags.

The mixing ratio is:  
25 kg dry powder premix: 4 - 4.5 litres water

The material should be agitated using a low-speed mixer fitted with a paddle-type stirrer until the mixture is uniform and free from lumps (minimum 3 minutes). Additional water (up to ½ litre) may be added, with continued stirring, to adjust consistency. Allow the mixture to stand for ten minutes, then re-mix for one minute. The material is ready to be used. Small amounts of tap water can be added, if necessary, to adjust consistency.

For machine application, the material must be mixed as described above prior to being pumped to the work surface.

### Method of Application:

Permarock Bedding Mortar is applied by stainless steel trowel or machine onto the prepared surface at an application rate of 3.5 - 5.0 kg/m<sup>2</sup>, depending on the specific usage. The applied material can be trowelled smooth or finished with a spatial or sponge float, depending on the application.

### Working Temperature:

Permarock Bedding Mortar should only be used when the surface and air temperatures, measured at the work face, are 3°C and above on a rising thermometer.

The temperature of the material, surfaces and air should not fall below 5°C during application and drying.

- Avoid frost.
- Avoid application in direct sunlight.
- Avoid application when rainfall is imminent or when temperatures are likely to fall below freezing before drying / curing has taken place.
- Avoid application in conditions likely to result in rapid drying out.

Note: In winter months and during periods of inclement or unusually warm weather it is advisable to record temperatures at the workface using a maximum / minimum thermometer to ensure that the recommended temperature limits are not exceeded.

### Drying / Curing Times :

At 20°C and 65% RH the reinforcement layer is sufficiently dry after 24 hours. Lower temperatures prolong the drying / curing times. Higher temperatures may lead to too-rapid drying and water evaporation and should be avoided.

### Protection:

Newly applied material should be protected from strong sunlight, drying winds, frost and precipitation / rainfall during the drying and curing period. Protect adjacent surfaces. Remove splashes immediately with clean water.

### Cleaning of Tools & Equipment:

Clean tools and equipment with water immediately after use.

## Advice

### Further details :

See material safety data sheet

### Technical Information Permarock Bedding Mortar. Issue: January 2022

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