

Technical Information

Brick Slips



Product Description

Field of Application:

Permarock Brick Slips are synthetic resin wall-facing elements for outdoor and indoor use to create a simulated brick or stone appearance. In addition to standard UK formats, custom sizes and shapes can be produced, along with nonstandard colour shades on request..

Properties:

- Facing element based on inorganic fillers and aggregates with an organic binder
- Reaction to fire: A2-s1,d0 (EN 13501-1)
- Weather resistant
- Water vapour permeable
- Hard-wearing and resistant to mechanical stress like impacts and scratches
- Cleanable
- Decorative, hand-formed elements
- Thickness approx. 4-6 mm

Supplementary Products:

- Permarock Brick Slip Adhesive BRI/080
Colours: Cement Grey, Sand White, Anthracite.
- Permarock Brick Slip Pointing Mortar BRI/081
Colours: Cement Grey. Other colours are available for special order
- Permarock Brick Slip Adhesive Trowel
- Permarock Brick Slip Angle Shears

Colours:

- Auburn
- Burnt Red
- Engineering Blue
- Firebrick
- Ice White
- Midnight
- Moorland
- Red Shadow
- Rustic
- Sandstorm
- Sunrise
- Twilight

Storage:

Protect from overheating and moisture (carton box)

Technical Data:

Fire Behaviour:	A2-s1,d0 (EN 13501-1) *
Thermal conductivity:	$\lambda_R = 0.70 \text{ W/mK}$ (DIN 4108)
Diffusion-equivalent air layer thickness $S_d \text{ H}_2\text{O}$:	S_d : approx. 0.45 m (DIN EN ISO 7783) Permarock Brick Slips bonded with Permarock Brick Slip Adhesive – total thickness ca. 7mm
Fire behaviour:	A2-s1, d0 as per DIN EN 13501-1 (Limited combustible)
Capillary water absorption:	approx. 0.27 kg/(m ² ·h _{0,5}) as per DIN 52617

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

Application

Format: Standard UK

Product No:	Type:	Packaging:	Consumption:
BRI/BS/"Colour"	Flat facing brick tiles 215mm x 65mm	174 no. slips/ box	Approx 59 no. slips/m ² Approx 3m ² /box (10mm joint width)
BRI/BC/"Colour"	Corner brick tiles 215mm x 65mm x 102.5mm	40 no. corner/box	Approx 13.3 corners/m ² Approx 3m ² /box

Cover the scaffolding with tarpaulin to protect the surface from rain during the adhesive and pointing mortar curing phases (if necessary).

By using natural aggregates, slight colour differences might be possible. Pay attention to process the same production numbers or pre-mix the required material quantities.

Preparation of Substrates:

The substrates must be even, clean, dry, dimensionally stable, solid and free from all materials that may prevent good adhesion. Cement-bound substrates including reinforced basecoats of Permarock EWI systems, Permarock Exterior Render Systems and Permarend Exterior Render Systems, shall be primed with Permarock K&R Primer to reduce the risk of efflorescence. Laying and Jointing

Laying and Jointing

- Prior to the application of brick slips, refer to the drawings to confirm the brick bond pattern required. Take note of any requirements for any brick soldier courses (e.g. at the base of the wall or at window sills or heads, etc.) or any other non-standard brick features.
- Before commencing the application of tiles, the area onto which the tiles are to be applied should be divided up evenly with continuous height and/or width marks (setting out with chalk lines) appropriate to the brick bond format required. Generally, existing fixed lines, such as window heads or door lintels should be used as the starting point for the setting out.
- Ensure that the brick tiles (facings and corners) are warm and pliable. Tiles which have been stored at low temperature are less flexible and susceptible to breaking or cracking during installation.
- Commence application of the brick slips working down the wall, starting at an appropriate level such as the corner of a window opening, etc.
- Permarock Adhesive Mortar BRI/080 should be thoroughly stirred in the container before use.
- Apply Permarock Adhesive Mortar BRI/080 at a rate of ca. 3.0 kg/m² onto the dry, primed (if required) reinforcement layer in bands within the setting-out marks and immediately comb the adhesive horizontally using the special serrated trowel. Do not comb vertically. The amount of adhesive mortar applied should be no more than can be immediately covered

with brick tiles within the "open time" of the mortar.

- At external corners, additional adhesive should be applied to ensure that air pockets are not trapped behind the tiles during installation.
- The brick tiles shall be pressed into the adhesive mortar and pushed/floated into place before the mortar has begun to film over. Avoid the formation of air pockets/cavities behind the brick tiles: The tiles must be fully bedded onto the adhesive without voids. Ensure that the brick tiles are 'randomized' by mixing up the different coloured brick tiles in each pack before commencing installation.
- Headers and other part-tiles can be cut using the special angled brick tile cutting shears.
- For soldier or sailor courses the Brick Facings shall be applied vertically, aligned along the bottom or top edge, depending on location.
- The joint spacing between the Brick Facings shall be approximately 10 mm dependent upon the configuration of the elevation. Spacing can be adjusted, as necessary, to achieve an even appearance for each course or row of brick tiles.
- The joints shall be smoothed using a dry, or slightly damp 10 mm flat brush and the adhesive worked into the edges of the brick tiles to ensure that the Brick Facings are completely sealed with mortar for the full perimeter of each brick tile. Do not use a wet brush - this will result in liquid adhesive washing onto the brick faces.
- After drying briefly, the area should be brushed down to remove any loose mortar residue. Checks should be made on the brick tile perimeters, and additional adhesive applied, as necessary, to ensure that the edges are fully sealed.
- Allow the adhesive to harden before commencing application of Brick Slip Pointing Mortar.
- Permarock Brick Slip Pointing Mortar, in the selected colour, is applied using a brick pointing trowel to fill the horizontal and vertical joints between the brick tiles.
- The material is a pre-coloured, semi-dry compound which should be pressed firmly into the joint and immediately smoothed using the pointing trowel to achieve a semi-rounded 'bucket handle' joint.

Working Temperature:

Processing temperature: +5 °C to +30 °C during application and curing for material, atmosphere and substrate. The product should not be applied on sun-heated substrates, during strong wind, fog or rain.

Cleaning of Tools & Equipment:

Immediately after use with water

Advice

Note:

Permarock Brick Slips are hand-shaped, individually manufactured products. Variances and tolerances in colour and dimension to be considered. Take care to avoid local concentration of colour shadings.

Disposal:

Small quantities of waste can be disposed of as normal household waste. Dispose of larger quantities as mixed construction and demolition waste.

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