

Technical Information

BituCoat Waterproof Adhesive Coating



Bituminous 2-Part Adhesive and Sealant. Solvent Free.

Product Description

Field of Application:

2-Part bitumen-based adhesive and waterproof sealing compound for adhesive bonding of Permarock EPS200 and PermaRock PIR plinth and perimeter insulation boards to wall surfaces below DPC and onto wall surfaces treated with waterproofing layers.

Also used as a waterproof coating on vertical structural elements in soil and to protect against moisture.

Properties:

- Solvent-free
- High initial adhesion
- Flexible when cured
- Good handling properties. Easy to apply
- Durable. Non-ageing. Rot-proof
- Crack bridging up to 2 mm (DIN 28052-6 at 4 °C)
- Suitable for use down to 3 m below ground level
- Heavy-duty, hard wearing and easy to clean

Packaging / Pack Size:

30 kg Combi-Pail
Liquid component A: 22 kg (bitumen emulsion)
Powder component B: 8 kg (hydraulic binder)

Colour:

Liquid component A: Black
Powder component B: Grey
Mixed material: Black-brown

Storage:

Cool, dry frost-free. Keep out of direct sunlight.

Shelf Life:

Unopened containers: 12 months from date of manufacture.

Product Code:

114/BITU

Density:	Component A: approx. 1.06 kg/litre Component B: approx. 1.39 kg/litre Mixed material: approx. 1.13 kg/litre
Consistency (mixed material):	Paste-like
Curing / hardening time:	Minimum 2 days
Mixing ratio:	Component A: 22 parts Component B: 8 parts by weight
Rain resistance:	After approx. 4 hours
Layer thickness:	Approx. 1.4 mm wet-applied material required for a dry layer thickness of 1 mm
Pot life at 20 °C:	ca. 1.5 - 2 hours

Application

Suitable Substrates:

All mineral substrates, including concrete blockwork, solid or hollow cored brick, sand-lime bricks, aerated lightweight bricks, concrete, aerated autoclaved concrete, cellular concrete, new mineral renders / plasters, reinforcement layers of External Wall Insulation (EWI) systems and all other sound, stable mineral substrates.

Condition of Substrates:

It is an essential pre-requisite when installing perimeter insulation / below ground insulation layers that the existing structure is adequately waterproof and protected against anticipated water loads.

Preparation of Substrates:

Substrates must be even, clean, firm sound / stable and free from all materials that may prevent good adhesion. Substrates may be slightly damp / moist but not wet.

- Allow new renders / plasters to dry and cure min. 2-4 weeks before applying the product.
- Remove all projections, mortar spots, burrs, unsound coatings, sealants, etc.
- Remove all earth, clay, etc.
- Form fillets at internal corners with cement mortar using suitable tools.
- Fill all open joints, gaps, etc. up to 5 mm wide using BituCoat Waterproof Adhesive Coating as a scratch filler.
- Gaps > 5 mm must be filled with a suitable mortar / filler.
- Fill pores on concrete surfaces with a scratch-filler application of BituCoat Waterproof Adhesive Coating.
- Avoid air entrapment in deep pores / voids.
- Ensure existing waterproofing coats are fully bonded, sound and intact.
- A scratch filler application of BituCoat Waterproof Adhesive Coating can be re-worked after a waiting time of ca. 3 hours.
- Full coat applications of BituCoat Waterproof Adhesive Coating can be re-worked up to 2 days after application, depending on the temperature.

Preparation of Material:

Stir liquid component A with a low-speed paddle mixer in a clean, flat bottomed container. Slowly add small amounts of the dry powder component B while mixing thoroughly. Continue adding the dry powder component B until the correct ratio is achieved, and continue mixing until a smooth, lump-free consistency is achieved.

If mixing reduced quantities, ensure the correct mixing ratio of 22 parts liquid component A: 8 parts powder component B (all by weight) is maintained. Workability / pot life is approx. 1.5 - 2 hours at 20 °C. Higher temperatures shorten the pot life. Lower temperatures lengthen the pot life / workability.

Method of Application:

Application as an adhesive:

Apply the fully mixed adhesive with a trowel onto the back face of the insulation boards in a continuous ca. 50 mm wide band around the perimeter of the back face of each insulation board, and with 5 or 6 additional 'dabs' of adhesive evenly spaced across the back of the boards.

Ensure that the adhesive extends to the bottom edge of the bottom row of insulation boards so that, when installed, the bottom edge of the insulation is fully sealed to the wall.

Press the boards onto the wall surface and 'float' into position to ensure proper bonding and to eliminate minor variations in the existing surface by use of the gap-filling properties of the adhesive.

Boards shall be tightly butt jointed: Remove all adhesive that extrudes between insulation board joints. Where more than one row of insulation boards is required, boards should be applied in a stretcher bond pattern with vertical joints offset by a minimum 200 mm. Joints shall be interlocked at all internal and external corners.

Application as a waterproof coating against soil moisture:

The reinforcement layer of the Permarock plinth EWI system may be taken below external ground level.

Allow the reinforcement layer to dry and harden thoroughly. Apply a full, unbroken coat of BituCoat Waterproof Adhesive Coating as a final waterproof coating commencing at the base of the plinth EWI system and extending up to ground level.

At the bottom edge of the system, the coating should lap onto the vertical DPM / waterproofing layer below the plinth insulation system and should form a continuous waterproof layer to the below-ground insulated render system. The material shall be applied as a coating at a minimum rate of 500 g / m². Thicker coatings (higher consumption rates) are required where the ground is wet or liable to frequent saturation.

The coating shall be allowed to dry fully before backfilling with a gravel or pebble drainage margin. The incorporation of a proprietary drainage sheet / membrane, such as an egg-crate sheet, is recommended.

Application as a waterproof coating against standing water:

BituCoat Waterproof Adhesive Coating should be applied by stainless steel trowel in 2 no coats at a thickness of 5.5 - 6.0 mm wet to achieve a dry film thickness of a minimum 4 mm. Permarock Reinforcing Mesh should be incorporated into the surface of the first coat, and a curing time of 24 hours should be allowed between coats.

Application Conditions:

Processing temperature: minimum + 5 °C / maximum + 30 °C during application and drying / curing for material, substrate and air.

Do not apply under direct sunlight, on sun-heated surfaces, on frozen surfaces, during strong wind, fog, high relative humidity or driving rain.

Drying / Drying Time:

Fully cured after approx. 2 days depending on the substrate, temperature, relative humidity and layer thickness. Lower temperatures and higher relative humidity extend the drying / curing time.

Tool Cleaning:

Immediately after use with water the hardened product should be removed with a solvent-based cleaner suitable for bitumen / bituminous materials such as white spirit.

Consumption:

Consumption rates depend on use:

Scratch filler:	approx. 1 - 2 kg/m ²
Sealing prime coat:	approx. 0.1 - 0.2 kg/m ²
Insulation adhesive:	approx. 1.5 - 2.5 kg/m ²
Sealer against soil moisture:	approx. 4.7 kg/m ² (ca. 4.1 mm wet/min. 3 mm dry)
Sealer against standing water:	approx. 6.2 kg/m ² (ca. 5.5 mm wet/min. 4 mm dry) - Applied in 2 layers and incorporating Permarock Reinforcing Mesh

Consumption rates vary depending on the substrate roughness. Exact rates should be determined by carrying out a trial application on-site.

Advice

Further details : See material safety data sheet

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