Hammerfast®
Construction Chemicals

WP-804 2K

Polymer-Modified Bitumen–Rubber Based Elastic Waterproofing Material

Description

Polymer-modified bitumen-rubber based, two-component, crack-bridging, elastic waterproofing material for foundations and retaining walls.

After curing, it forms a seamless, flexible, and durable waterproofing membrane resistant to water and moisture.

Advantages

- High adhesion and high mechanical strength
- Forms a seamless, continuous and fully waterproof coating
- Resistant to freeze–thaw cycles
- High elasticity and excellent crack-bridging capability
- Strong adhesion to substrates
- Non-sag formulation for vertical applications
- Easy application by brush, trowel, or spray
- Environmentally friendly and solvent-free

Application Areas

- Waterproofing of foundations and retaining walls
- Substructure waterproofing below ground level
- Raw concrete surfaces
- Protection of concrete surfaces against wate
- Basements and retaining structures
- Parking areas and underground structures
- Terrace and balcony underlay applications
- Wet areas, balconies and terraces
- Bridges and viaducts

Note: Not UV resistant; must be protected after application.

Surface Preparation

- Surfaces must be slightly damp or dry. Application on wet surfaces is not allowed.
- Surfaces must be clean, sound, and load-bearing. Any oil, dirt, paint, or formwork residues must be removed; sandblasting or grinding should be performed where necessary.
- Cavities and cracks must be repaired using suitable Hammerfast repair mortars before application.
- Internal corners should be rounded with Hammerfast RM-150 T structural repair mortar, while external corners should be rounded by grinding.
- On porous substrates, pores should be closed by applying Hammerfast WP-804 2K primer as a scratch coat.
- For priming, the liquid component is diluted with water at a ratio of 1:5 and applied thoroughly using a stiff brush at a consumption rate of 200–250 g/m².

Application

- Mix Hammerfast WP-804 2K liquid component and powder component. Pour the powder component into the liquid component and mix using a low-speed electric mixer (400–600 rpm) until a lump-free, homogeneous mixture is obtained.
- Apply the prepared mixture by brush, trowel, or spray.
- Apply at least two coats to achieve the required thickness.
- Use reinforcement tape or mesh at corners and joints if required.
- In applications requiring reinforcement mesh (e.g., 4 mm thickness systems), the mesh should be embedded into the first wet coat.
- If reinforcement is not required, application can be made in one layer with a thickness of 2–5 mm.
- Each layer must be fully cured before applying the next coat. Do not apply over uncured layers.

Consumption

- Hammerfast WP-804 2K must be applied in at least two coats.
- Consumption is approximately 1,50 kg/m² per coat; total consumption is approximately 3 kg/m² for two coats.
- Each coat provides approximately 1 mm thickness.

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Technical Properties

Content	Polymer-modified bitumen emulsion
Color and appearance	A: Black / B: Grey fine powder
Application temperature	+5 ^{0}C / +35 ^{0}C
Service temperature	-20 ^{0}C / +80 ^{0}C
Pot life	2 hours
Overcoating interval	4-6 hours
Full curing time	2-5 days
Backfilling time	Min. 3 days
Mixed density (EN 1015-6)	1,20±0,01 g/cm^3
Solid content (EN ISO 3251)	A= % 55 / A+B= % 66
Waterproofing (TS EN 15814)	Class W2A
Crack bridging (TS EN 15814)	Class CB2
Rain resistance (TS EN 15814):	Class R2
Resistance to compression (TS EN 15814)	Class C2A
Water resistance	Passed
Low temperature flexibility:	Passed
High temp. dimensional stability	Passed
HS Code (GTIP)	2715.00.00.00.00

Note: Values were obtained at 23±2°C temperature and 50±5% relative humidity.

Important Notes

- The product is ready to use and must not be diluted with any liquid under any circumstances.
- Expansion joints must not be treated with Hammerfast WP-804 2K; appropriate Hammerfast expansion joint sealing tapes must be used in these areas.
- Surfaces must be protected from external conditions by covering within 3 days at the latest after application.
- Applied surfaces must be protected against frost for 3 days. After curing, since the product is not UV resistant, it must be protected with a suitable protective layer.
- In foundation and retaining wall applications, backfilling must not be carried out without a protective layer applied over the cured product.
- Application tools must be cleaned with water immediately after use; hardened residues can be removed with solvent thinner.

Storage and Shelf Life

Component A and B: 12 months from the date of production when stored in their original unopened packaging, in dry and moisture-free conditions, protected from direct sunlight, and at temperatures between +10 °C and +35 °C.

Containers must be tightly closed when not in use. Pallets should not be stacked.

Safety Precautions

- Keep out of reach of children.
- Do not swallow.
- Keep away from food.
- Do not inhale or allow contact with skin.
- May cause allergic reactions.
- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- Use gloves, goggles, and protective clothing during application.
- Wash hands with plenty of water after application.
- For detailed safety information, read the Material Safety Data Sheet (MSDS)

Packaging

- Component A (Liquid): 22 kg drum
- Component B (Powder): 8 kg bag
- Supplied as a 30 kg set

Tool Cleaning

Application tools must be cleaned with water immediately after use. Hardened residues can be removed using cellulose-based solvent thinner.

Quality Certificates

- TSE (TS EN 15814)
- CE
- ISO 9001
- ISO 14001

9001:2015 14001:2015

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