

WP-804 1K



Polymer-Modified Bitumen-Rubber Based Single-Component Elastic Waterproofing Material

Description

Polymer-modified bitumen-rubber based, single-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 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 water
- 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 1K 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

- Hammerfast WP-804 1K is ready to use; it only needs to be mixed with an electric mixer before application.
- 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., 3 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 1-1,5 mm.
- Each layer must be fully cured before applying the next coat. Do not apply over uncured layers.

Consumption

- Hammerfast WP-804 1K must be applied in at least two coats.
- Consumption is approximately 1,40 kg/m² per coat; total consumption is approximately 2,8 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	Black viscous liquid
Application temperature	+5 °C / +35 °C
Service temperature	-20 °C / +80 °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)	1,10±0,01 g/cm ³
Solid content (EN ISO 3251)	% 71
Waterproofing (TS EN 15814)	Class W2A
Crack bridging (TS EN 15814)	Class CB1
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 1K; 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

When stored in its original, unopened packaging, in dry and moisture-free conditions, protected from direct sunlight, and at temperatures between +10 °C and +35 °C, the shelf life is 12 months from the date of production.

Containers should be tightly sealed 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

Available in 30 kg pails.

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

