Hammerfast®
Construction Chemicals

WP-250

Cement-Based, Polymer-Modified, Single-Component Elastic Waterproofing Material

Description
Cement-based, polymer-modified, single-component elastic waterproofing material applied by mixing with water. It provides high adhesion to the substrate and forms a durable, flexible coating. After full curing, it creates a waterproof layer with crack-bridging capability and long-term durability.

Advantages
- Single-component, easy to prepare
- Easy application by brush or trowel
- High elasticity and crack-bridging capability
- High adhesion strength
- Suitable for use in potable water tanks
- Forms a seamless, joint-free, and permanent coating
- Resistant to temperature variations
- Resistant to freeze-thaw cycles
- Suitable for both horizontal and vertical applications
- Suitable for application under finishing coatings
- Does not crack, forms a flexible coating

Areas of Use
- Waterproofing of water tanks
- Wet areas such as bathrooms, toilets, swimming pools, and thermal pools
- Swimming pools and ornamental pools (under ceramic applications)
- Terraces and balconies (provided that it is covered with a finishing material)
- As a waterproofing material under ceramic tiles
- Basements, foundations, and exterior walls as a waterproofing material on both horizontal and vertical surfaces

Consumption
- Single coat: approx. 1,5 – 2,0 kg/m²
- Total (two coats): approx. 3,0 – 4,0 kg/m²

Surface Preparation
- The application surface must be clean, sound, slightly damp, and properly leveled.
- Substances that may prevent adhesion (such as paint, bitumen, curing compounds, oil, etc.) must be removed from the surface.
- Mortar and cement residues must be scraped off, and surface defects should be repaired at least 24 hours prior to application using suitable Hammerfast RM-150 repair mortars.
- Absorbent surfaces such as exposed concrete and cement-based plaster should be pre-wetted before application; however, no ponding water should be present.
- The use of a مناسب primer is recommended for highly absorbent surfaces.

Application
- 15 kg of Hammerfast WP-250 should be gradually added into 3,6–3,9 L of clean water and mixed with a low-speed mixer for 3–5 minutes until a homogeneous, lump-free consistency is achieved.
- After resting for 3–4 minutes, the mixture should be re-mixed before application and applied in at least two coats using a brush or trowel.
- Each coat should be applied perpendicular to the previous one, with a waiting time of at least 4–6 hours between coats.
- Sharp edges and corners should be chamfered and rounded using Hammerfast RM-150 T repair mortar before application. If chamfering cannot be done with repair mortar, Hammerfast chamfer tape should be used.
- In applications requiring reinforcement mesh, the mesh should be embedded into the first coat before it dries. After full curing, subsequent coats can be applied.

Packaging
- Supplied in 15 kg four-ply kraft bags
- (1 Pallet = 60 bags = 900 kg / Pallet dimensions: 80 × 120 cm, h = 100 cm))

Cleaning of Tools
All tools should be cleaned with water immediately after application.

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Technical Properties

Color and Appearance	Grey fine powder
Packaging	15 kg
Mixing Ratio	24%-26% water by weight
Type (TS EN 14891)	CM
Mortar Density (A+B):	1,30±0,05 kg/L
Application Thickness:	0,75-2,00 mm
Application Temperature:	+5°C / +30°C
Service Temperature:	-20 ^{0}C / +80 ^{0}C
Pot Life:	~2 hours
Waiting Time Between Coats	4-6 hours
Mechanical Strength Time	2 days
Time for Covering / Tiling	3 days
Initial Water Impermeability Time	7 days
Water Impermeability (EN 14891 Test A.7)	No penetration and ≤ 20 g
Crack Bridging (Standard Conditions) (EN 14891 Test A.8.2)	≥ 0,75 mm
Resistance to Pressurized Water (Positive Side)	7 bar
Adhesion Strength	≥ 1,00 N/mm^2 (28 days)
Capillary Water Absorption (TS EN 1062-3)	≤ 0,10 kg (m^2. h^{0,5})
HS Code (GTIP)	3824.50.90.00.00

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

Storage and Shelf Life

- 12 months from the date of production when stored in original, unopened packaging in dry conditions, protected from direct sunlight, and at temperatures between +10°C and +35°C
- Packages should be tightly closed when not in use. Pallets should not be stacked.

Precautions

- A protective coating should be applied over the material in areas exposed to pedestrian traffic or direct sunlight.
- After application, the surface should be protected from direct sunlight, air drafts, and frost for at least 3 days.
- In hot weather conditions, the substrate should be pre-moistened before application.
- Do not exceed the specified application thickness.
- No foreign materials should be added under any circumstances.
- In wet area applications, movement joints, as well as vertical and horizontal corners, should be chamfered or reinforced with chamfer tapes.
- Not suitable for application on wood, chipboard, or metal surfaces.
- Not suitable for use against negative water pressure.
- Do not apply on frozen substrates, surfaces with risk of frost within 24 hours, or on surfaces where ice is thawing.
- Do not apply under direct sunlight, strong wind, or on hot surfaces.

Safety Precautions

- Keep out of reach of children.
- Do not eat or ingest.
- Keep away from foodstuffs.
- Avoid inhalation and direct contact with skin.
- May cause allergic reactions.
- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- It is recommended to use protective gloves, goggles, and clothing during application.
- Wash hands thoroughly with water after application.
- For detailed safety information, refer to the Material Safety Data Sheet (MSDS)

Quality Certificates

- CE
- ISO 9001
- ISO 14001

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