

PU-201



Tek Bileşenli Poliüretan Esaslı Su Yalıtım Malzemesi

Description

It is a single-component, moisture-curing polyurethane-based waterproofing material that forms a seamless, elastic, and waterproof membrane on the applied surface.

After curing, it exhibits high elasticity, UV resistance, and resistance to frost. It accommodates surface movements and provides excellent crack-bridging capability.

Features and Advantages

- Single-component, ready to use, and easy to apply
- Cold-applied and cures by reacting with atmospheric moisture
- Can be applied by roller, brush, or airless spray
- Vapor permeable
- High flexibility and adhesion
- High mechanical and chemical resistance
- Excellent resistance to tensile stress, tearing, abrasion, and UV
- Superior crack-bridging capability due to its permanent elasticity
- Provides seamless, monolithic application
- Resistant to ponding water
- Maintains its properties within the temperature range of -25°C to +80°C

Application Areas

- For indoor and outdoor applications
- On concrete, screed, and mineral surfaces
- For waterproofing of metal surfaces and metal roofs
- On terraces, roofs, and rain gutters
- On balconies and verandas
- On surfaces exposed to light pedestrian traffic
- In wet areas, under-tile waterproofing applications
- Used for waterproofing in bridges and stadium concrete structures

Surface Preparation

- The application surface must be dry, sound, clean, and free from oil, dust, dirt, loose particles, and any previous coatings (such as acrylic, bitumen, etc.).
- Surfaces to be primed must be free of defects such as holes, cracks, and fractures, and must not be dusty. Such defects should be repaired using Hammerfast Repair Mortars prior to application.
- Highly absorbent surfaces such as concrete, cement board, gypsum board, cement screed, or wood should be primed with Hammerfast PU-101 polyurethane primer before application.
- Prepared surfaces must be primed with Hammerfast PU-101 Primer (250 g/m²) using a brush, roller, or spray method. After a waiting period of minimum 3–4 hours and maximum 48 hours, Hammerfast PU-201 application can proceed.
- The moisture content of the substrate must not exceed 4%.

Application

- Hammerfast PU-201 is ready to use. Do not add any foreign substances.
- It should be kept at room temperature for at least 24 hours before application.
- Mix thoroughly with a low-speed mixer until homogeneous. Apply evenly on primed surfaces using a notched trowel, trowel, short-pile roller, brush, or suitable spray equipment.
- Generally, two coats are recommended. The first coat should fully penetrate the surface, and the second coat should be applied crosswise.
- Wait approximately 12–24 hours between coats. This time may be shorter in hot weather and longer in cold conditions.
- If the waiting time between coats exceeds 24 hours, the surface must be sanded before the next application.

Consumption

- Consumption varies depending on the roughness and absorbency of the substrate.
- For two coats, the approximate minimum consumption is 1,5 kg/m².

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Technical Properties

Color	Grey or White
Packaging	25 kg tin
Density	1,30 ± 0,05 g/cm ³
Application Temperature	+5°C / +35°C
Service Temperature	-25°C / +80°C
Moisture Tolerance	Max. 4%
Waiting Time Between Coats	12–36 hours
Light Foot Traffic Time	~12 hours
Rain Resistance Time	4 hours
Full Curing Time	7 days
Elongation at Break	600%
Adhesion to Concrete	≥ 2,00 N/mm ²
Tensile Strength	≥ 4,00 N/mm ²
Crack Bridging (Standard Conditions)	≥ 2,0 mm
Shore A Hardness	60 (7 days)
Water Vapor Permeability	20 g/m ² /day
HS Code (GTIP)	3208.90.91.00.23

Note: Values are measured at a temperature of 23 ± 2°C and relative humidity of 50 ± 5%.

Technical Properties

- The product is ready to use and must not be diluted with any liquid under any circumstances.
- Application should be avoided on excessively humid surfaces (relative moisture above max. 4%) or wet substrates.
- In wet area applications, moving joints, vertical and horizontal corners should be chamfered or reinforced with fillet tapes.
- Not suitable for use against negative water pressure.
- Do not apply on frozen surfaces, surfaces at risk of frost within 24 hours, or surfaces where ice is melting.
- Do not apply under direct sunlight, strong wind, or on hot surfaces.
- Prevent contact with water for at least 4 hours after application.
- Do not apply on fresh concrete.
- Allow sufficient drying time between coats.
- Store protected from freezing, direct sunlight, and extreme temperatures.

Safety Precautions

- Contains solvent; flammable. Keep away from open flames and do not smoke during application.
- Use only in well-ventilated areas and preferably in open spaces. Be aware that solvent odor may occur in enclosed areas.
- Keep out of reach of children.
- Do not eat or ingest.
- Keep away from foodstuffs.
- Do not inhale directly and avoid contact with skin.
- May cause allergic reactions.
- In case of eye contact, rinse thoroughly with plenty of water and seek medical attention.
- It is recommended to use gloves, safety goggles, and protective clothing during application.
- Wash hands thoroughly with plenty of water after application.

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.
- When not in use, the packaging must be tightly closed. It is recommended to store the pails upside down with their lids facing downward.
- Pallets should not be stacked on top of each other.

Packaging

It is supplied in 25 kg metal pails.

Tool Cleaning

All tools used should be cleaned with polyurethane thinner immediately after application.

Quality Certificates

- CE (TS EN 1504-2)
- ISO 9001
- ISO 14001