

weberdry PUR bitumen

Bitumen-polyurethane based, single-component flexible waterproofing product

Technical Data Sheet
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■ Description

Liquid-applied, permanent elastic, cold applied and cold curing, bitumen extended, single component solvent based polyurethane membrane used for long-lasting waterproofing.

■ Advantages

- Quick and easy application
- Forms single-piece, elastic waterproofing layer
- Easy application consistency, easy solution for complex details
- Maintains mechanical features even in severe weather conditions
- Resistant to frost
- Resistant to detergents, oils, saltwater and domestic chemicals

■ Application areas

Used as waterproofing material against moisture, pressurised and unpressurised water on foundations, cellar walls, terrace roofs, balconies, car parks, bridge upper sections and similar areas of all buildings. Also used as waterproofing material for wet areas and repairing old waterproof coatings.



■ Application substrates

Interiors and exteriors;

- Cement based screeds, renders, concrete,
- Old tiles, metal, bitumen and acrylic coatings (with **weberprim EP 2K**)

Please consult us for all other application substrates.

■ Preparation of substrates

- Careful surface preparation is essential for optimum finish and durability.
- The surface needs to be clean and sound, free of any contamination, which may harmfully affect the adhesion of the primer.
- Maximum moisture content should not exceed 5%.
- Substrate compressive strength should be at least 25MPa (N/mm), adherence strength at least 1.5MPa (N/mm).
- New concrete structures need to dry for at least 28 days.
- Old coatings, dirt, organic substances and dust need to be removed by a grinding machine or shot-blasting. Oil or grease contamination must be cleaned substantially.
- Possible surface irregularities need to be smoothed.

- Any loose surface particles and grinding dust need to be thoroughly removed.
- Major deformations and holes on the substrate should be repaired at least 24 hours before **weberdry PUR seal** application using **weber structural repair mortars**; where quick application or sulphate resistance is needed, **weber HKS** should be used instead.
- Dilatation joints on application substrates should not be covered with **weberdry PUR bitumen**; **weber superflex** dilatation tapes should be used instead to ensure the continuity of waterproofing.
- Vertical and horizontal edges should be beveled to ensure continuity of waterproofing layer using **weber structural repair mortars**; where quick application or sulphate resistance is needed, **weber HKS** should be used instead.
- On sound, high quality concrete surfaces no primer is necessary.
- Absorbent substrates like cement based ones and wood; and glass, metal, old tiling, bitumen, acrylic coated substrates should be primed using **weberprim EP 2K**.

■ Application conditions

- Ambient temperature between +5°C and +35°C.
- Avoid application in extremely hot and/or damp weather.
- Should not be used on frozen or melting substrates, or substrates with the risk of frost within 24 hours.

■ Application

- Stir **weberdry PUR bitumen** before using for at least 2-3 minutes.
- **weberdry PUR bitumen** should be applied on the primed substrate using brush or roller until all surface is covered.
- Do not apply **weberdry PUR bitumen** over 0.6 mm thickness (dry film) per layer.
- Thin cracks, joints, corners and edges should be supported using **weber geokeçe** after the first coat application. **weber geokeçe** application should cover the entire substrate after the first coat on terrace roofs and similar applications. Use 5 - 10 cm stripe overlapping.
- Application should be at least 2 coats and at least 8 hours should be waited between coats (waiting time should not exceed 24 hours).
- If waterproofing coat is to be covered with ceramic tiles, fully saturate with oven-dried silica sand (aggregate -size 0,4-0,8 mm) the last layer while still wet. This saturation will create an adhesion bridge to the tile adhesive that will follow.

■ Application tools

Mixer, brush, roller

■ Consumption

1.4-2.0 kg/m² (for 2 or 3 coats of application)

Points of attention

- Should not be applied on fresh concrete substrates.
- Maximum moisture content of the substrateg should not exceed 5%.
- For an ideal application, compressive strength of the substrate should be at least 25 Mpa and adherence strength should be at least 1.5 Mpa.
- Do not apply **weberdry PUR bitumen** over 0.6 mm thickness (dry film) per layer.
- The product should be kept away from fire sources and should not be approached with cigarette.
- Use gloves and glasses during the application, avoid eye and skin contact. In case of contact with eyes and skin, rinse immediately with plenty of clean water and seek medical attention.
- Make sure the application area has sufficient air flow.
- Protect the cured **weberdry PUR bitumen**, with a drainage board before backfilling.
- If an additional (optional) thermal insulation is required, place an insulation board (XPS, EPS, PUR, etc) on the cured **weberdry PUR bitumen**. Subsequently, place protective drainage board.
- **weberdry PUR bitumen** is slippery when wet. In order to avoid slipperiness, sprinkle suitable aggregates onto wet coating to create an anti-slip surface.
- Low temperatures retard cure while high temperature speed up curing. High humidity may affect the final finish.

Technical specifications

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|------------------------------------|--------------------------------------|
| PRODUCT | weberdry PUR bitumen |
| Product structure | Bitumen polyurethane |
| Colour | Black |
| Applicable coats | 2-3 layers |
| Time required between coats | Minimum 8 hours; Maximum 24 hours |
| Tack free time | 5-6 hours |
| Light pedestrian traffic time | 24-48 hours |
| Full curing time | 7 days |
| Service temperature | Between -40°C and +90°C |
| Hardness (shore D) | 40 (ASTM D 2240) |
| Adherence to concrete | >1.0 N/mm ² (ASTM D 903) |
| Elongation at break | >%600 (DIN 52455) |
| Tensile strength | >4.5 N/mm ² (DIN 52455) |
| E-Modulus | 1.0 N/mm ² (DIN 52455) |
| Tear resistance | 15 N/mm ² (ASTM D 624) |
| Puncture resistance | >100 N (ASTM E 154) |
| Resistance to hydrostatic pressure | No leak @3 bar (30 m water column) |
| Vapour permeability | None |

The stated times apply for 20°C substrate and ambient temperature; increase at lower temperatures and decrease at higher temperatures.

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Storage

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|------------|---|
| Packaging | 25 kg metal bucket |
| Colour | Black |
| Shelf life | <ul style="list-style-type: none">• 9 months from date of manufacture when stored away from direct sunlight, in a dry and cool environment.• Storage temperature should be between +5°C and +30°C.• Packages should be kept tightly closed when not in use.• Packages should be protected against frost. |

Safety precautions

- Use appropriate safety equipment (mask, gloves, glasses).
- Protect your eyes/face.
- Avoid direct contact with eyes and skin.
- In case of contact with eyes, rinse immediately with plenty of clean water and seek medical attention.
- Please read Safety Data Sheet (SDS) for further safety information.

LEGAL DISCLAIMER

Saint-Gobain Weber Yapı Kimyasalları San. ve Tic. A.Ş. is not responsible for any errors arising from the use of product beyond its intended purpose or not complying the application procedures mentioned above.