



weberdry PUR seal

Aliphatic polyurethane based, UV resistant, super elastic liquid applied waterproofing product



## Product description

**weberdry PUR seal** is a aliphatic polyurethane based, ready-to-use, super elastic, liquid applied waterproofing membrane for long lasting waterproofing.

**weberdry PUR seal** is based on pure elastomeric hydrophobic polyurethane resins, which result in excellent mechanical, chemical, thermal, UV and natural element resistance properties.

Cures by reaction with ground and air moisture.

## Advantages

- Simple application (roller or airless spray).
- When applied forms seamless membrane without joints.
- Resistant to water.
- Resistant to frost.
- Resistant to root penetration, so it can be used in green roof constructions.
- Crack-bridging up to 2 mm, even at -10°C.
- Provides water vapor permeability.
- Provides excellent thermal resistance.
- Provides excellent weather and UV resistance.
- Provides high sun reflectivity, contributing to thermo-insulation.
- Maintains its mechanical properties over a temperature span of -40°C to +90°C.
- Provides excellent adhesion to almost any type of surface.
- The waterproofed surface can be used for domestic, public pedestrian and light vehicular traffic.
- Resistant to detergents, oils, seawater and domestic chemicals.
- Simple repair in case of mechanical damage.
- Does not need the use of open flames (torch) during application.

## Uses

- Waterproofing of Roofs.
- Waterproofing of Balconies, Terraces and Verandas.
- Waterproofing of Wet Areas (under-tile) in Bathrooms, Kitchens, Balconies, Auxiliary Rooms, etc.
- Waterproofing of Pedestrian and Vehicular traffic Decks.
- Waterproofing of Green Roofs, Flowerbeds, Planter Boxes.
- Coating on old Bitumen felts, EPDM, PVC membranes and existing acrylic coatings.
- Protection of Polyurethane foam insulation.
- Waterproofing and protection of concrete constructions, stadium stands, car parks, etc.

## Method of application

### Surface preparation

- 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 25 MPa (N/mm<sup>2</sup>), cohesive bond strength at least 1.5 MPa (N/mm<sup>2</sup>). 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.
- Crack repair: We recommend treating static cracks in substrate, wider than 0.2 mm to repair by using injection resin. The crack has to be opened v shaped by using diamond disc saw. Then cut perpendicular to crack in a

distance of 15 – 20 cm and place reinforcing metal blades inside. Pour injection resin into crack until saturation.

**WARNING:** Do not wash surface with water!

### Priming

- Prime surfaces like concrete, cement screed, wood, bitumen- felts, metal, ceramic tiles and old coatings by using weberprim EP 2K.
- Allow the primer to cure according its technical instruction.

### Waterproofing membrane

- Stir well before using. Pour weberdry PUR seal onto the prepared/primed surface and spread out by roller, brush or squeegee, until surface is covered in required thickness. You can use airless spray allowing a considerable saving of manpower.
- Reinforce always with weberdry fabric at detail areas, like wall-floor connections, 90° angles, chimneys, pipes, waterspouts (siphon), etc. In order to do that, apply on the still wet weberdry PUR seal a correct cut piece of weberdry fabric, press it to soak, and saturate again with another layer of weberdry PUR seal.
- After 12-18 hours (not later than 48 hours) apply another layer of weberdry PUR seal Repeat this process in mentioned time frame if required layer thickness has not been achieved. For detailed instructions about weberdry fabric, contact our weber technical service team.
- 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.

### **ATTENTION:**

We recommend reinforcement of the entire surface, with weberdry fabric. Use 5-10 cm stripe overlapping. Do not apply weberdry PUR seal over 0.6 mm thickness (dry film) per layer. For best results, the temperature during application and cure should be between +5°C and +35°C. Low temperatures retard cure while high temperature speed up curing. High humidity may affect the final finish.

### Finishing

- If a color stable and chalking-free surface is desired, apply one or two layers of weberdry PUR coat over weberdry PUR seal within recommended overworking time.
- If a heavy duty, abrasion resistant surface is desired (e.g. Public Pedestrian Deck, Car parking, etc.), apply two layers of the weberdry PUR coat traffic. The final layer of weberdry PUR seal need to scattered with oven- dried silica sand (0.4 – 0.8 mm) in advance.
- For the several top-coats application procedures, please consult our technical instructions or contact our weber technical service team.

**WARNING:** weberdry PUR seal is slippery when wet. In order to avoid slipperiness during wet days, sprinkle suitable aggregates onto the still wet coating to create an anti-slip surface. Please contact our weber technical service team.

### Consumption

1.5 – 2.5 kg/m<sup>2</sup> applied in two or three layers. This coverage is based on application by roller onto a smooth surface in optimum conditions. Factors like surface porosity, temperature and application method may alter consumption. In case of weberdry fabric reinforcement, consumption increases.

## Test results as per european technical assessment

( ETA 005 Part 6 )

Working life expected	W3	25 Years
Climate zone	M and S	All
Imposed loads	P1 to P4	Very High (maximum load)
Roof slopes	S1 to S4	<5° to >30°
Lowest surface temperature	TL4	-30°C
Highest surface temperature	TH4	+90°C
Reaction to fire	Class E, Brooft4, DIN 4102-1, DIN 4102-7	EU Norm
Resistance to wind loads	≥ 50 kPa	EU Norm
Min layer thickness	1.6 mm	
Min quantity consumed	2.4 kg/m <sup>2</sup>	

Working life expected	W2	10 Years
Climate zone	M and S	All
Imposed loads	P1 to P3	High
Roof slopes	S1 to S4	<5° to >30°
Lowest surface temperature	TL3	-20°C
Highest surface temperature	TH4	+90°C
Reaction to fire	Class E, Brooft4, DIN 4102-1, DIN 4102-7	EU Norm
Resistance to wind loads	≥ 50 kPa	EU Norm
Min layer thickness	2.9 mm	
Min quantity consumed	4.1 kg/m <sup>2</sup>	

### Abbreviations:-

M - moderate climate

S - severe climate

P1 - low load

P3 - normal load

P4 - heavy load

S1 - surface temperature < 5°C

S4 - surface temperature > 30°C

TL4 - surface temperature -30°C

TL3 - surface temperature -20°C

TH4 - surface temperature 90°C

## Performance parameters

PROPERTY	RESULTS	TEST METHOD
Elongation at Break	> 900 %	ASTM D 412 / DIN 52455
Tensile Strength	> 4 N/mm <sup>2</sup>	ASTM D 412 / DIN 52455
Water Vapor Permeability	> 25 gr/m <sup>2</sup> /day	ISO 9932:91
Resistance to mechanical damage by static impression	High Resistance (class:P3)	EOTA TR-007
Resistance to mechanical damage by dynamic impression	High Resistance (class:P3)	EOTA TR-006
Resistance to Water Pressure	No Leak (1m water column, 24h)	DIN EN 1928
Adhesion to concrete	> 2.0 N/mm <sup>2</sup> (concrete surface failure)	ASTM D 903
Crack Bridging Capability	up to 2 mm crack	EOTA TR-008
Hardness (Shore A Scale)	65-70	ASTM D 2240 (15")
Resistance to Root Penetration	Resistant	UNE 53420
Solar Reflectance (SR)	0.87	ASTM E903-96
Solar Emittance (ε)	0.89	ASTM E408-71
Thermal Resistance (80°C for 100 days)	Passed - No significant changes	EOTA TR-011
UV accelerated ageing, in the presence of moisture	Passed - No significant changes	EOTA TR-010
Resistance after water aging	Passed	EOTA TR-012
Hydrolysis (5% KOH, 7 days cycle)	No significant elastomeric change	Inhouse Lab
Construction Material Fire class	B2	DIN 4102-1
Resistance to radiating heat	Passed	DIN 4102-7
Service Temperature	-30°C to +90°C	Inhouse Lab
Shock Temperature (20 min)	200°C	Inhouse Lab
Rain Stability Time	3-4 hours	Conditions: 20°C, 50% RH
Light Pedestrian Traffic Time	18-24 hours	
Final Curing time	7 days	
Chemical Properties	Good resistance against acidic and alkali solutions (5%), detergents, seawater and oils	

## Certifications

**weberdry PUR seal** was tested by the German state testing institute for construction materials MPA-Braunschweig according the European Union Directive for liquid-applied roof waterproofing kits ETAG 005 and was found conforming.

**weberdry PUR seal** was certified by the German state Institute for construction techniques DIBt-Berlin with the European Technical Assessment (ETA) and with the CE-mark and certification according to the EOTA (European Organization of Technical Approval). The European Technical Assessment (ETA) is valid for two levels of use (W2 and W3) depending on the applied thickness.

**weberdry PUR seal** was additionally tested and approved by various laboratories in different countries around the world.

## Packaging

weberdry PUR seal is supplied in 25 kg metal pails. Pails should be stored in dry and cool rooms for up to 12 months. Protect the material against moisture and direct sunlight. Storage temperature: 5°-35°C. Products should remain in their original, unopened containers, bearing the manufacturers name, product designation, batch number and application precaution labels.

## Safety measures

weberdry PUR seal contains isocyanates. See information supplied by the manufacturer. Please study the Safety Data sheet. **FOR PROFESSIONAL USE ONLY!**

## Caution

There may be irritation caused in eyes and skin in case of contact for a very long time. Please seek medical help if the problem persists for a long time. The product is recommended to be applied with gloves.



FDS / SDS / DoP  
Product information



<https://goo.gl/d39avs>

Scan QR code to download android app for product information and technical data for our complete product range, directly from your smartphone.



### Saint-Gobain India Pvt. Ltd. - Weber Business

5<sup>th</sup> Level, Leela Business Park, Andheri-Kurla Road, Andheri (East), Mumbai-400 059, Maharashtra. India.

Email: [weber-india@saint-gobain.com](mailto:weber-india@saint-gobain.com) Website : [www.in.weber](http://www.in.weber)

**weber**  
Connect  
**18004252778**  
[www.in.weber](http://www.in.weber)



/SaintGobainWeberIndia



/SGWeberIndia



/SaintGobainWeberIndia



/SaintGobainWeberIndia



/company/saint-gobain-weber-india