



weberdry PUA Seal



Hybrid polyurethane based liquid applied waterproofing membrane for Roofs and terraces, podiums, floor slabs, etc.



## Product description

**weberdry PUA Seal** is a single component liquid applied solvent free polyurethane based hybrid waterproofing membrane for indoor and outdoor use. It cures to provide a seamless coating to form a tough, elastomeric membrane. It must be covered by a layer of protective screed or must be embedded in a geotextile membrane.

## Typical application

Waterproofing various areas like

- Roofs and terraces
- Podiums
- Floor slabs and balconies
- Wet areas (under tile) of bathrooms and kitchens

## Features and benefits

- Solvent-free, non-toxic
- Single component, ready-to-use
- Highly flexible
- High ability to bridge cracks
- Excellent resistance to UV and rains
- Excellent adhesion on porous and non-porous substrates
- Seamless waterproofing membrane
- Easy to apply
- No obnoxious smell makes it ideal for small confined areas.

## Method of application

### Surface preparation

- Concrete substrate must be sound of sufficient compressive strength of min 20 MPa and pull off strength of 1.5 N/mm<sup>2</sup>
- The moisture in the concrete floor must be less than 5% with no chance of any rising moisture or potential osmosis problems arising from the concrete.

- Substrate should be levelled and clean without any bond inhibiting substance, like dust, dirt, grease, oil, laitance or loose particles.
- Laitance and deposits on concrete floor must be removed mechanically using rotary grinding equipment to achieve a rough textured surface.
- For old concrete substrates, weak concrete must be removed and surface defects must be treated based upon the contaminant on surface. (For detailed description refer to product data sheet of weberprim Epox 501).

### Crack treatment

- All shrinkage and non-moving cracks must be cut open in V groove.
- Cracks less than 2 mm thickness should be filled with **weberwall crackbond**.
- Cracks greater than 2 mm should be repaired with cement sand mix modified by **webertec SBR**.
- Filled cracks must be coated with a coat of weberprim Epox 501 after a period of 6 hours extending 50 mm on either side of crack.

### Fillet preparation

- All horizontal and vertical joints must be filled with 50 mm x 50 mm fillet.
- First apply a bond coat by mixing 1 part of cement and 1 part of webertec crete.
- While the bond coat is wet, lay 50 mm x 50 mm fillet using cement sand mortar admixed with webertec crete.
- The fillet must be allowed to stand for minimum 12 hours to gain strength and dry completely.

### Pipe penetrations

- All gaps between the core and outlet pipes must be made watertight by filling with polymer modified mortar or non-shrink grout.
- Once the gaps are cured, pipe outlets must be treated with weber tap seal.
- Apply one coat of weberdry PUA Seal and place weber tap seal into wet material. Press it to fully soak without leaving air within.
- Saturate weber tap seal completely with an additional coat of weberdry PUA Seal covering all the edges.

### Primer application

- Apply a coat of weberprim Epox 501, as primer for good and long lasting adhesion
- Mix the two components in designated ratio and apply same with a roller.
- Dry patches may be observed on concrete if surface is porous. In such a case, application of additional coat of weberprim Epox 501 is recommended.

- Wait 4-5 hours for the primer to surface dry before application of subsequent coat.
- Application of subsequent coat of weberdry PUA Seal is recommended when the primer is slightly tacky.

### Product preparation

- After opening the bucket, mix the material with a mechanical stirrer until a homogeneous mixture is formed.
- Ensure to scrap the sides and bottom of the container with the stirrer.
- Do not add any water or solvent under any circumstances.

## Application

### With embedded glass fibre mesh

- Apply 1st coat of weberdry PUA Seal @ coverage of 600 grams per sq mt on the entire area with roller. For small inaccessible areas, cover them using a paint brush.
- Care must be taken to ensure a monolithic film with uniform thickness.
- Allow the coat to air dry for 12 - 16 hours.

## Performance parameters

	Test method	weberdry PUA Seal
Weight solids		73% +/- 2%
Elongation at break	ASTM D 412 : 2016	> 450%
Tensile strength N/mm <sup>2</sup>	ASTM D 412 : 2016	1.25 MPa
Water vapor transmission	ASTM E 96	25 g/m <sup>2</sup> /24 hrs
Adhesion strength N/mm <sup>2</sup>	ASTM D 4541 : 2017	> 1.5 MPa (concrete failure)
Permeability to water	BSEN 12390 - part 8 : 2008	7 bar passes
Water ponding test		Passes
Crack bridging	ASTM C 836 : 1995	upto 1.5 mm
Shore A hardness	ASTM D 2240	60 - 70

- Apply second coat of weberdry PUA Seal, perpendicular to the first coat @ coverage of 400 grams per sq mt.
- While the second coat is wet, roll 1 mtr wide glass fibre mesh (45 g/m<sup>2</sup>) ensuring no bubbling or creases in it. Embed the glass fibre mesh with another coat of weberdry PUA Seal.
- Edge overlapping of glass fibre mesh must be min 50 mm.
- Wait for 12-16 hours for the reinforcement layer to dry and apply final coat of weberdry PUA Seal @ 500 grams per sq mt.

#### Laying of protective screed

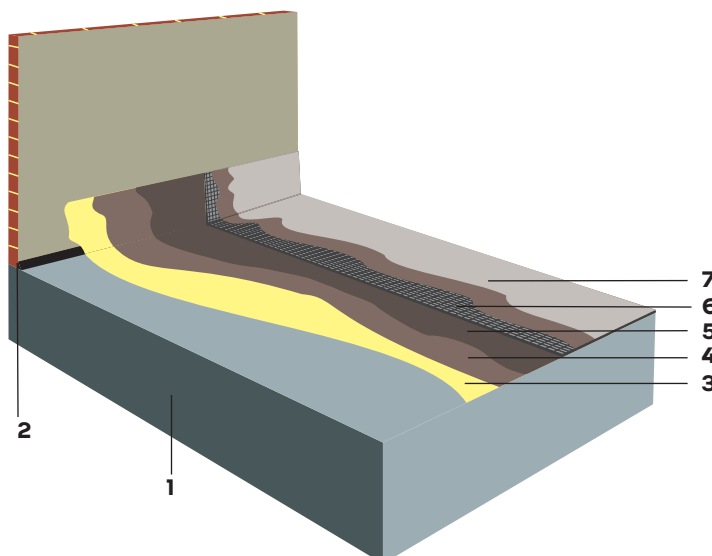
- Apply 1st coat of weberdry PUA Seal @ coverage of 800 grams per sq mt on the entire area with roller. For small inaccessible areas, cover them using a paint brush.
- Care must be taken to ensure a monolithic film with uniform thickness.
- Wait for 12-16 hours to let the first coat to dry.
- Apply second coat of weberdry PUA Seal @ coverage of 600 grams per sq mt, perpendicular to the first coat.

- Allow the coat to dry for 24 hours, before laying geotextile membrane (160 g/m<sup>2</sup>). Ensure overlap of min 100 mm between two layers of geotextile.
- While laying protective screed, ensure proper slope on rooftops to prevent water accumulation.

#### Precaution

- Always start the detail application prior to waterproofing on flat surface
- Make sure the applied coats do not get wet before complete curing.
- Do not apply if the temperature is in excess of 40°C or less than 10°C.
- Always apply during falling ambient and substrate temperatures. If applied during rising temperature, pin holes may occur from rising air.
- Parapet walls should also be coated atleast to a height of 1 ft with weberdry PUA Seal.
- All joints should be covered by angular fillet. While embedding geotextile membrane, it is recommended to apply weberdry PUA Seal in 1 meter width at a time.

#### Typical installation system



1. Concrete slab
2. Angular fillet
3. weberprim Epox 501
4. 1st coat weberdry PUA Seal
5. 2nd coat weberdry PUA Seal
6. Glass fibre mesh
7. 3rd coat weberdry PUA Seal

## Limitations

- If the surface has excess moisture, then there is possibility of blister formation as in case of all liquid applied membrane coating.
- Not recommended on substrates with rising moisture
- Do not allow ponding to remain between coats until final coat has totally cured.

## Coverage

- For waterproofing with embedded geotextile membrane: 1.8 - 2.2 kg/sq mt for 3 coats.
- With protective screed – 1.4 -1.6 kg/sq mt for 2 coats.

## Packaging

25 kg air tight buckets.

## Shelf Life

12 months from the date of manufacturing if stored in original and unopened packaging in a cool & dry place away from direct sunlight.

## Condition of sale

Sold subject to the company's condition of sale which are available on request.

## 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.

## Disclaimer

The user should determine the usability of the product for its intended use. Our products are manufactured under the Saint-Gobain quality standards, and subjected to strict quality control procedures. Since the company has no control over site conditions and installation procedures, the company will not be responsible under any circumstances for any loss, damage or liability from incorrect usage.



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.



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