weberdry PUD coat

High performance UV-resistant polyurethane dispersion waterproofing membrane

- Highly flexible
- UV resistant
- Excellent adhesion on porous and non-porous substrates
- Seamless waterproofing membrane
- Solvent-free, non-toxic
- One-component, ready to use

Product description

weberdry PUD coat is a one-component, solvent-free liquid applied waterproofing membrane. **weberdry PUD coat** is highly flexible and UV-resistant to waterproof roof decks, terraces, balconies, and metal roofs.

Consumption

High build system: **weberdry PUD coat** is fortified with a polyester fleece to further enhance the tensile strength & durability of the standard system. It is highly recommended for large roof areas. Consumption may vary from 1.5-2.0kg/m^2 subjected to the substrate quality. For more information, kindly refer to product data sheet.

Packaging

20 kg bucket

Color

grey/ white/ green

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Application

Substrate preparation

1. The substrate should be dry with moisture content below 6%. The surface should be level, clean without any oil or dust. Make good any unsound area before the application of **weberdry PUD coat.**
2. The surface temperature must be 3˚C above the dew point at the time of application.
3. Apply as a primer **weberdry PUD coat** by adding and thoroughly mixing together 10% water to the product and apply (~ 0.4 kg/m^2) on cement based substrate or as per below table.

Substrate	Primer
Concrete	**weberdry PUD coat** + 10% water
Brick/ stone	**weberdry PUD coat** + 10% water
Slate/ tiles	**weberdry PUD coat**+ 10% water
Bitumen based coating	**weberdry PUD coat**+ 10% water* or metal primer
Metals	**weberdry PUD coat**+ 10% water** or metal primer
Wooden substrates	**weberdry PUD coat**+ 10% water*** or metal primer
Paint/ coating	Subject to adhesion & compatibility

* Bitumen based coating: Ensure of good adhesion to the substrate. Prime the entire area and always use "High build system".

** Metal substrate must be in good condition. Abrade the surface to reveal bright metal, to remove all rust and stain. If the metal is not sound, epoxy or any appropriate primer is recommended.

*** Wood panel roof decks have to be in good condition, firmly adhered or proper mechanical fixed.

4. Leave the primed surface to be tack-free for approximately 1–2 hours before the main two coat waterproofing application.

Product preparation

1. Stir the product very well using a mechanical mixer to obtain a uniform material and colour after opening the bucket.
2. Do not mix **weberdry PUD coat** with water unless using as primer.

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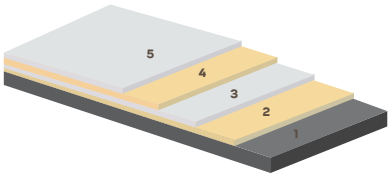
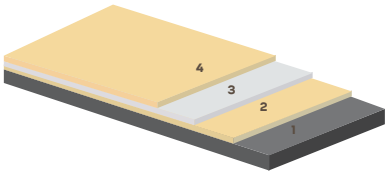
Waterproofing



High Build System
1. Substrate
2. Primer (**weberdry PUD coat** + 10% water)
3. 1st coat (**weberdry PUD coat**)
4. Reinforcement fleece
5. Final coat (**weberdry PUD coat**)

A. High Build System (waterproof with fleece): weberdry PUD coat is applied with **weberdry fleece** reinforcement to enhance tensile strength and durability.

1. After the primed area is tack-free (1–2 hours waiting time), apply 1st coat (~0.5 kg/m²) of **weberdry PUD coat** with roller or brush or any proper tools*.
2. Wait ~ 4–6 hours for 1st coat to dry and then apply the 2nd coat (~0.5 kg/m²) of **weberdry PUD coat**, then roll in **weberdry fleece** and make sure no bubbling or creases in the fleece occur.
   - Edge overlapping of **weberdry fleece** should be a minimum of 5cm. It's strongly recommended to do the application just 1 m² per time for the least experienced applicators.
3. Wait ~ 12-24 hours for the reinforced layer to dry and then apply the final coat (~0.5 kg/m²) of **weberdry PUD coat.**
   - Make sure **weberdry fleece** is completely embedded.
   - Surface should be smooth after the application.



Standard System
1. Substrate
2. Primer (**weberdry PUD coat** + 10% water)
3. 1st coat (**weberdry PUD coat**)
4. Final coat (**weberdry PUD coat**)

B. Standard System (waterproof without fleece): weberdry PUD coat is applied without reinforcement.

1. After the primed area is tack-free (1–2 hours waiting time), apply 1st coat of **weberdry PUD coat** (~0.5 kg/m²) with roller or brush or other application tools.
2. Wait ~ 4–6 hours for 1st coat to dry and then apply final coat (~0.5 kg/m²) of **weberdry PUD coat.**

Remarks

- Always start the detail application prior to waterproofing on horizontal surface.
- All joints should be treated with **weberdry fleece** or **webertape BE 14.**
- The previous layer must be cured and tack-free before the application of consecutive layer.
- Waiting times between layers are based on 20 – 30˚C with 50% relative humidity.

Tools

Brush: a thick hair brush
Roller: with a solvent resistant, short-hair roller
Airless spray machine: use only for standard systems.
For spray applied application, a minimum 2 layers with crisscross direction to be applied. For the best performance, the pump should have the following parameter:

- minimum pressure = 220 bar/min. output: 5.1 l/min.
- minimum ø nozzle: 0.83 mm (0.033 inch).

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Limitations

- Do not apply on substrates with rising moisture. Always apply during falling ambient and substrate temperatures. If applied during rising temperature, pin holes may occur from rising air.
- Ensure the temperature does not drop below 8˚C and the relative humidity does not exceed 80% until the membrane has fully cured.
- Ensure that the coating is thoroughly dry and the surface is without pinholes before applying any top coat.
- Do not allow temporary ponding to remain between coats on any horizontal surfaces or until the final coat has totally cured. Brush or mop surface water away during this time.
- Do not apply on roofs subject to long-term water ponding with subsequent periods of frost. In cold climatic zones for roofing structures with a pitch of less than 3% appropriate measures must have to be considered.
- Do not apply directly on to insulation boards.
- Not recommended for high pedestrian traffic. In case heavy traffic is unavoidable, it shall be covered with appropriate covering materials such as tiles, stone plates, or wooden panels.

Shelf life and storage

12 months when stored unopened in a dry and ventilated area. Storage condition at temperature between 5 °C–35 °C

Technical data

Type	Polyurethane dispersion waterproof
Density	1.35 g/cm^3 at +23˚C
Solid content	50% by volume
Service temperature	-5˚C to +80˚C (with **weberdry fleece**)
Tensile strength – ASTM D412	1.0 N/mm^2 (without reinforcement)
	4.0 N/mm^2 (with **weberdry fleece**)
Elongation at break – ASTM D412	300% (without reinforcement)
	70% (with **weberdry fleece**)
Rain resistance	2-8 hours
Full cure	2-4 days