

weberdry PUM coat

HIGH PERFORMANCE ELASTOMERIC POLYURETHANE MODIFIED WATERPROOFING

DESCRIPTION :

weberdry PUM coat is a single component, low VOC, liquid applied waterproofing membrane. It is highly elastic producing a seamless, crack bridging membrane for roofs, balconies, floor slabs, RC gutters, foundations and retaining walls.

USES :

- Roofs
- Balconies
- Toilets
- Kitchens
- Retaining Walls
- Walkways
- Podiums

FEATURES AND BENEFITS :

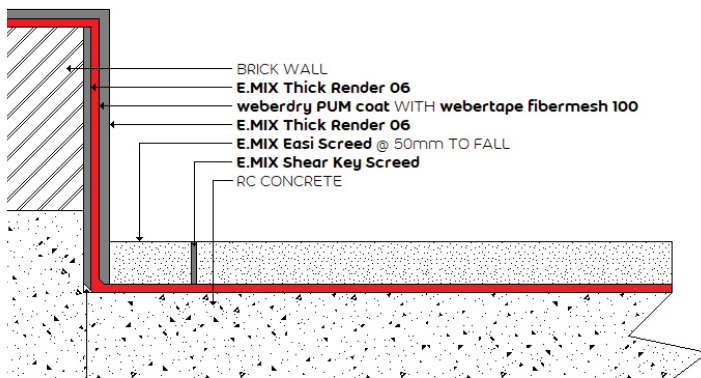
- Eco-friendly with low VOC.
- Ultra-high bonding / elasticity designed for superior crack-bridging properties.
- Easy application to minimize site application errors.
- Enhanced durability with a polyurethane modified formulation hence increases the service life.

PREPARATION :

- New concrete should be cured for at least 28 days and should have a pull off strength $\geq 1.5 \text{ N/mm}^2$.
- Cement or mineral based substrates must be prepared mechanically using abrasive blast cleaning or scarifying equipment to remove cement laitance and to achieve an open textured surface.
- Loose friable material and weak concrete must be completely removed and surface defects such as blowholes and voids must be fully exposed.
- Substrate must have sufficient gradient for surface water to run off easily without ponding.

TECHNICAL DATA

Colour	: Black
Density	: 1.8kg/l at 23°C
Shelf Life	: 12 months from date of production
Service Temperature	: Between 5°C to 40°C at normal ambient temperature
Substrate temperature	: Between 5°C to 35°C
Substrate	: No standing water/condensation on the substrate to be coated
Air Humidity	: Maximum 80% RH
Dew point	: Surface temperature must be +3°C above the dew point
1st coat to primer	: 1 – 2 hours
Over Coat Time	: 4 – 6 hours
Final coat to reinforcement	: 12 – 24 hours
Curing Time	: 48 hours
Screed/mortar/concrete	: after 48 hours
Standard System	
Priming Coat	: 0.2 kg/m ² (Dilute 1 part to 1 part clean potable water)
1 st Coat	: 0.7 kg/m ²
Final Coat	: 0.7 kg/m ²
Improved System	
Priming Coat	: 0.2 kg/m ² (Dilute 1 part to 1 part clean potable water)
1 st Coat	: 0.7 kg/m ²
Reinforcement	: 0.5 kg/m ² + 1 layer webertape fibermesh 100
Final Coat	: 0.5 kg/m ²
Pull-Off Adhesion Strength	: $\approx 1.0 \text{ N/mm}^2$
ASTM D412	
Elongation at break	: > 150%
ASTM D412	



TYPICAL RC FLAT ROOF - NON EXPOSED SYSTEM



CONSTRAINTS :

- Do not apply on substrates with rising moisture. Always apply during falling ambient and substrate temperature. If applied during rising temperatures pin holes may occur from rising air.
- Ensure that temperature does not drop below 8°C and that relative humidity does not exceed 80% until the membrane has fully cured
- Ensure that the coating is thoroughly dry and free of pinholes before applying the next layer.
- Do not allow temporary water ponding to remain between coats on any horizontal surfaces or until the final coating has totally cured. Brush or mop the surface water away during this time.
- Do not apply directly on insulation boards.
- Protect the waterproofing for 48 hours after the final coat. Do not expose waterproofing for a prolonged period of time after application.
- It is highly recommended to protect the wall waterproofing membrane with polystyrene or protection board before back filling.
- When applying a screed over the **weberdry PUM coat** use a polyethylene sheet on top of the coating as a separation layer and protection layer for the coating.
- Minimum joint over lapping is 100mm.

APPLICATION :

Prior to the application of **weberdry PUM coat**, all corners or possible weak areas must be treated with application of **weberdry PUM coat** with **webertape fibermesh 100**.

Improved System:

weberdry PUD coat is applied with the reinforcement of **webertape fibermesh 100** to enhance the waterproofing system

- Apply primer (~0.2 kg/m²) of **weberdry PUM coat** (dilute 1 part to 1 part water).
- Apply 1st coat (~0.7 kg/m²) of **weberdry PUM coat** after 1 – 2 hours of primer coat.
- Apply 2nd coat (~0.5 kg/m²) of **weberdry PUM coat** then roll in **webertape fibermesh 100** and ensure that there are no bubbles or creases. Overlapping of **webertape fibermesh 100** at minimal 5cm. It is highly recommended to carry out just 1m² per time for a lesser experienced application. Apply 4 – 6 hours after 1st layer.
- Apply final coat (~0.5 kg/m²) of **weberdry PUM coat**. Rule of thumb is to have sufficient materials to embed **webertape fibermesh 100**. Surface should be smooth after application. Apply the final coat after 12 to 24 hours of the 2nd coat.

Standard System:

weberdry PUM coat is applied without reinforcement

- Apply primer (~0.2kg/m²) of **weberdry PUM coat** +10% water or apply primer (~0.2kg/m²) for wet rooms.
- Apply 1st coat (~0.7kg/m²) of **weberdry PUM coat** with proper tools, apply 1 – 2 hours after primer coat.
- Apply final coat (~0.7kg/m²) of **weberdry PUM coat** after 4 – 6 hours of 1st coat.

Note :

- Please note, always begin with details prior starting with waterproofing the horizontal surface. For details, follow steps as proposed by our respective staff. As a rule of thumb, the previous layers must be cured & tack-free before the application of the consecutive layers.
- All joints should be reinforced with **webertape fibermesh 100** or non-woven polyester mesh.
- Waiting time between layers are based on 20°C to 30°C with 50% relative humidity.

CURING :

The waterproofing must not become wet while it is still curing. It should be protected from direct sunlight, rain or pedestrian traffic

4 days of natural air curing is normally sufficient however 7 days is recommended for over coating with other cementitious materials such as screed and tile adhesive

Water ponding tests can be carried out after 4 days curing

COVERAGE :

Improved system : Approx. 10m² per 20kg plastic pail

Standard system : Approx. 13m² per 20kg plastic pail

PACKING :

20kg plastic pails

SHELF LIFE / STORAGE :

12 months when stored in dry conditions of normal ambient temperature between 5°C to 35°C.

TECHNICAL SERVICES :

For further details or recommendation please contacts our Technical Advisory/Specification Center at 603-6038 9498 (KL) & 604-626 2830 (Penang)

PRECAUTION :

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet containing physical, ecological, toxicological and other safety-related data

Conditions Of Sales :

Sold subject to Company's Condition of Sale, which is available upon request.

Note :

All instruction and information are provided by us for the general guidance only and are believed to be accurate and complete. Users must exercise special care and caution depending on the conditions and particular purpose of usage and are responsible to ensure that they have consulted our latest literature. To the maximum extent allowed by law, Saint-Gobain Weber (M) Sdn Bhd, its representatives, agents or distributors shall be under no liability for any loss of profits and other economic or physical losses.

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Member OF :

- FMM, Malaysia
- MCIG, Malaysia
- MBAM, Malaysia
- MGBC (Malaysia Green Building Confederation)
- SGBC (Singapore Green Building Council)
- SIRIM Working Group - MS 1294 & MS 1295

OHSMS CERTIFIED TO ISO 45001 (CERT NO: MY16 / 02151)
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