

DESCRIPTION :

weberdry BITU coat is a single component, bitumen base waterproofing compound. It is designed for reinforced concrete structures such as retaining walls, lift pits, pile caps, ground beams, etc. against penetration of salty ground water and acidic soils.

USES :

- Underground Structures
- Pile caps
- Ground beams
- Retaining walls
- Lift pits
- RC pipes
- Box culverts
- Man holes

FEATURES AND BENEFITS :

- Eco-friendly with a low VOC
- Ultra-high bonding/elastic properties designed for superior crack-bridging properties
- Easy application to minimize on site application errors
- Concrete protection against acidic soils/salty ground waters

PREPARATION :

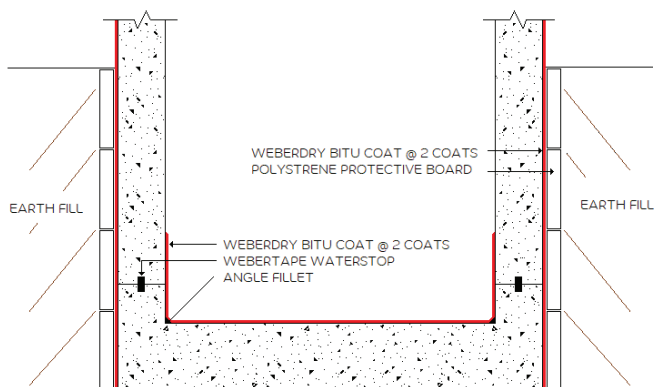
- New concrete should be cured for at least 28 days and should have a pull off strength $\geq 1.5 \text{ N/mm}^2$. Cement or mineral based substrates must be prepared mechanically using abrasive blast cleaning or scarifying equipment to remove cement laitance and to achieve an open textured surface
- Loose friable material and weak concrete must be completely removed and surface defects such as blowholes and voids must be fully exposed
- Protrusions of more than 3mm must be removed. All intersections of horizontal and vertical surfaces should be profiled with a mortar fillet of 25 x 25 mm.

MIXING :

- Mix in a clean container by slowly adding Part A (powder) to Part B (liquid) and stirring with a low speed mixer (500 rpm) for 3 - 5 minutes, until a smooth consistent mixture and a slurry consistency is achieved.

TECHNICAL DATA

Colour	: Black
Density	: 1.8kg/l at 23°C
Shelf Life	: 9 months from date of production
Service Temperature	: Between 5°C and 40°C at normal ambient temperature
Storage 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
Over coat time	: 6 – 12 hours
Curing Time	: 2 – 4 days
<i>Standard System</i> Priming Coat	: 0.35 kg/m ² (Dilute the product with 10% clean potable water)
1st Coat	: 0.7 kg/m ²
2nd Coat	: 0.7 kg/m ²
<i>Improved System</i> Priming Coat	: 0.35 kg/m ² (Dilute the product with 10% clean potable water)
1st Coat	: 0.7 kg/m ²
Reinforcement	: 1 layer webertape fibermesh 100
2nd Coat	: 0.7 kg/m ²
3rd Coat	: 0.7 kg/m ²
Pull-Off Adhesion Strength : ASTM D7234	: > 0.5 N/mm ²



TYPICAL LIFT PIT AREAS



CONSTRAINTS :

- Do not apply on substrates with rising moisture. Always apply during falling ambient and substrate temperatures. 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 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 coating has totally cured. Brush or mop any surface water away during this period.
- Do not apply directly onto insulation boards.
- Protect the waterproofing for 48 hours after the final coat. Do not expose the waterproof coating 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.
- Minimum joint over lapping is 100mm.

APPLICATION :

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

Improved System:

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

- Apply primer (~0.35 kg/m²) of **weberdry BITU coat** (Dilute the product with 10% clean potable water)
- Apply 1st coat (~0.7 kg/m²) of **weberdry BITU coat** after 1 – 2 hours of primer coat
- Apply 2nd coat (~0.7 kg/m²) of **weberdry BITU 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 (~0.7 kg/m²) of **weberdry BITU coat**. Rule of thumb is to have sufficient materials to embed **webertape fibermesh 100** (or polyester fleece). Surface should be smooth after application. Apply 12 to 24 hours after the 2nd layer

Standard System:

weberdry BITU coat is applied without reinforcement

- Apply primer (~0.35 kg/m²) of **weberdry BITU coat** +10% water or apply primer (~0.2kg/m²) for wet rooms
- Apply 1st coat (~0.7 kg/m²) of **weberdry BITU coat** with proper tools, apply 1 – 2 hours after primer coat
- Apply final coat (~0.7 kg/m²) of **weberdry BITU 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. 8m² per 20kg plastic pail

Standard system : Approx. 11.5m² per 20kg plastic pail

PACKING :

20kg plastic pails / 200kg drums

SHELF LIFE / STORAGE :

At least 9 months, when stored in dry conditions of normal ambient temperature between 5°C – 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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