BUMA-WP®

PROOF 668

High flexible universal acrylic waterproofing coating

In compliance with European standard EN 14891:2017 DMP bumatech Liquid applied water impemeable products

Good crack bridging

Alkalis resistant

UV resistance

Ease to use

SINGAPORE GREEN BUILDING COUNCIL MEMBER

VGBC Vietnam Green Building Council

LOW VOC

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PROOF 668

PRODUCT DESCRIPTION

Proof 668 is one component seamless waterproofing membrane acrylic fortified with UV resistant additive, which cures to form a tough flexible membrane to protect all concrete and masonry surfaces against the ingress of water and moisture

USES

- Waterproofing of external wall of building
- Waterproofing of basement walls
- Waterproofing of potable water tanks
- Waterproofing of kitchens and toilets
- Waterproofing of balconies and planter boxes
- Waterproofing of swimming pools and water features
- Waterproofing to precast gable end wall
- Waterproofing to RC flat roof and gutters
- Protection of concrete surfaces which may come into contact with seawater or sodium/ calcium chloride, and sulfates

SUITABLE SUBSTRATES

- Concrete with minimum 1% slope
- Cementitious plaster, screed with minimum 10MPa of compressive strength
- Existing tile on roof
- Existing metal roof
- Existing cementitious or bituminous waterproofing
- Old paint wall

PACKAGING

10 kg/pail and 20 kg/pail

COLOR

White, light grey, light yellow or upon request

COVERAGE

- 0.5 – 0.9kg/m2: external wall
- 1.2 – 2.4kg/m2: concrete roof, metal roof

SHELF LIFE

Factory sealed containers of this product are guaranteed to be of first quality for two (2) year* if stored off the ground in a dry area and low temperature

*High temperature will reduce the shelf life of bagged product

LIMITATIONS

- DO NOT use over dynamic expansion joints, structural cracks or cracks with vertical differential movement
- DO NOT use for thick coat (> 0.5kg/m2/layer)
- DO NOT use over cracks >2.0mm in width for wall and 5.0mm in width for slab
- DO NOT expose to negative hydrostatic pressure, excessive vapor transmission
- DO NOT use for AAC block or panel
- DO NOT apply product if moisture of substrate higher than 6%, relative humidity higher than >85%
- During hot weather, keep product out of direct sunlight

INSTALLATION

SURFACE TEMPERATURE FROM 5°C TO 35°C

Concrete substrate preparation

- Concrete surfaces should be structurally sound, clean and free from all dirt, oil, grease, adhesives, paint, sealers or curing compounds
- Repair cracks present in the concrete substrate with **BUMA-POXY Bond 81** by injection method
- Concrete surface must be mechanically roughened prior to application. All substrate must have minimum ICRI CSP 2 to 3 (Grinding, high pressure water-jet blasting, light sandblasting, scarification...Bonding strength of surface must be at least 1.5MPa according to ASTM C1583
- Concrete surfaces must be mechanically roughened prior to application to provide mechanical bond. All substrates must have minimum ICRI CSP 2 to 3
- Substrate deflection under all live, dead and impact loads, including concentrated loads, must not exceed limitations.

Mortar bed/ plaster substrate preparation

- Cementitious surface must be fully cured (7 days per 10mm thickness)
- Cementitious surfaces should be structurally sound, clean and free from all dirt, oil, grease, adhesives, paint, curing compounds
- Bonding strength of surface must be at least 0.5MPa according to ASTM C1583

Metal surface preparation

Metal surface should be in sound condition. Abrade or clean surface before apply waterproofing product

Existing Ceramic Tile, Stone or Cement Terrazzo substrate preparation

- All tile and stone must be well adhered to the substrate and free from any bond breaking or bond-inhibiting surface contaminates. Ensure bond strength of the tile or stone to the substrate is a minimum 0.5MPa. If the floor does not pass the 0.5MPa pull strength test you must remove the tile or stone
- Existing tile or stone should be abraded by mechanically method
- Wash and rinse thoroughly with clean water. Allow to completed dry

Existing cementitious, bituminous waterproofing, old paint wall preparation

- Cementitious, bituminous waterproofing or old wall paint layer must be well adhered to lower substrate and free of particles reduces bonding strength

PROOF 668

Mixing

- Stir **Proof 668** with professional mixer for one minute. Avoid mixing too long
- Apply with roller, brush, trowel or spray machine

Application

- For horizontal and vertical surfaces, a roller, brush or spray gun can be used to apply the slurry. Care must be taken to ensure that air is not entrapped in the membrane
- Ensure that all joints and corners are properly coated, preferable with a brush at the beginning
- **BuMaTape/ BuMaBand** is also recommended at joints and corners where movement is expected
- Apply the first coat (can be diluted with water 10% by weight) and allow it to dry. Allow membrane to dry for approximately 30-45 minutes before application of the second coat. Coverage: 0.2-0.4 kg/m2 (For wall)
- Apply the second coat at right angles to the first coat. Coverage: 0.3-0.5 kg/m2 (For wall)
- For floor area larger than 200m^2, **BuMaMesh 150/ 75** should be incorporated. Apply the first coat of **Proof 668** (Coverage: 0.7 – 1.2kg/m2) and immediately incorporated **BuMaMesh 150/75**. Apply subsequent coats at right angles to the last coat while ensuring ample coverage at all joints and corners. Coverage: 0.5-1.2 kg/m2

Installing Finishes

- Allow **BuMaProof 668** to cure at least 72 hours at 29°C and 50%RH before covering with finishes (If requested)
- Ceramic/ porcelain/ granite tile, natural stone must be installed by the thin bed method with a Bumatech C2TE Thin-Set Mortar: **BuMaBond, BuMaFlex, BuMaEco + Ceralastic, Porcerapid**

Cleaning

- Due to high adhesion strength of this product (even on metals), tools should be washed before mixture becomes harden
- Once mixture setting, cleaning can only be carried out by mechanical method

SAFETY PRECAUTIONS

- In case of contact with the eyes, rinse with running water (10-15min)
- Wear protective gloves, clothing and eye and face protection.
- Avoid inhaling dust/fume/mist of product (when use spay application)
- Ensure adequate ventilation during mixing and application
- Material Safety Datasheet will be supplied upon request

DISCLAIMER

- Technical details and reccomendations contained in this product datasheet correspond to the best of our knowledge and experiences at the time of printing
- These detail offered for user's consideration and evaluation. It is the responsibility of the user to conduct their own tests to validate the suitability of the products for their requests
- Technical details and reccomendations can be changed by site condition and workmanship of applicators.
- As we have no control over site conditions and the execution of the work, we accept no liability for any loss or damage which may rise as a result thereof. We also reserve the right to update the information at any time without prior notice to you to reflect our ongoing research and development program
- The newest technical date sheet will be supplied upon user request

TECHNICAL SERVICES/ AVAILABILITY

Information is available by calling

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PRODUCT PERFORMANCE PROPERTIES

Test	Test Method	Specification	≥ 1.2 kg/m2 (For ROOF)	0.5 - 0.9 kg/m2 (For WALL)
Initial tensile adhesion strength	BS EN 14891	≥ 0.5 N/mm^2	≥ 1.3 MPa	≥ 1.6 MPa
Tensile adhesion strength after **water contact**		≥ 0.5 N/mm^2	≥ 1.1 MPa	≥ 1.6 MPa
Tensile adhesion strength after **heat ageing**		≥ 0.5 N/mm^2	≥ 1.0 MPa	≥ 1.6 MPa
Tensile adhesion strength after **contact with lime water**		≥ 0.5 N/mm^2	≥ 1.1 MPa	≥ 1.2 MPa
Tensile adhesion strength after **contact with chlorinated water**		≥ 0.5 N/mm^2	≥ 1.0 MPa	≥ 1.2 MPa
Water impermeability		No Penetration	No Penetration	
Crack bridging ability		≥ 0.75 mm	≥ 5.0 mm	≥ 2.0 mm
28 Days Elongation at break	ASTM D412	n/a	380% ± 20%	230% ± 20%
Maximum tensile strength			≥ 4.0 MPa	
Shore A hardness	ASTM D2240		≥ 70	
Pot life (35^{0}C, RH ≥ 60%)	n/a	n/a	1 hour	
Tack free time (35^{0}C, RH ≥ 60%)			30 – 45 mins	
Fully cure (35^{0}C, RH ≥ 60%)			7 days	

Specifications subject to change without notification. Results shown are typical but reflect test procedures used. Actual field performance will depend on installation methods and site conditions