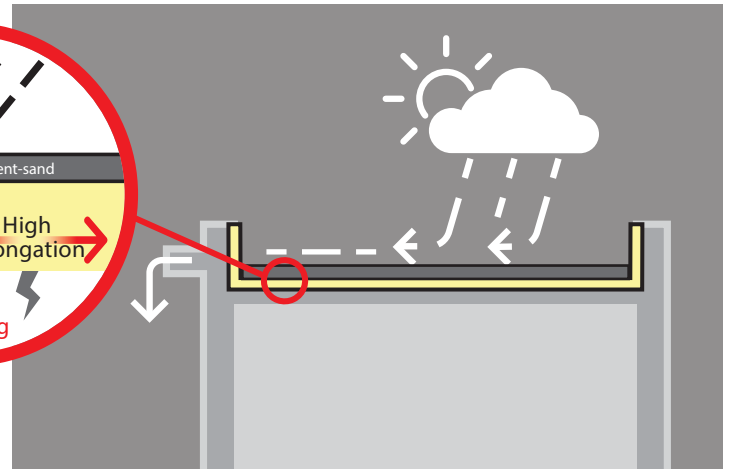
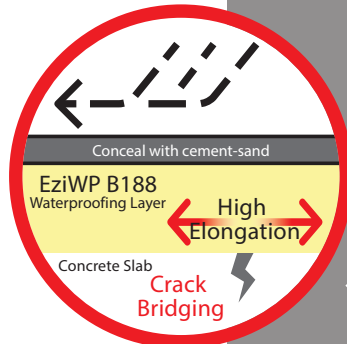




Ezi INNOVATIVE BUILDING SOLUTIONS

# 5.6 EziWP - B188 PU-BITULASTIC

HIGH PERFORMANCE ELASTOMERIC CONCEAL WATERPROOF COATING



## PRODUCT INFORMATION

Product name	: EziWP - B188 PU-BITULASTIC
Packing	: 5 kg and 20 kg
Shelf life	: 12 months
Storage condition	: Store in cool and dry condition
Appearance	: Black
Base	: Water - base
Chemical content	: Polyurethane Modified Bitumen

## APPLICATION DATA

Mixing ratio	: Use direct from the container (Note: Stir well before use)
Coverage	: Primer: Approx. 0.20kg/m <sup>2</sup> per coat (Diluted with 10% Water) Approx. 0.5 - 0.7 kg/m <sup>2</sup> per coat (Recommended 2 coats)
Waiting time between coat	: First Coat to Primer: 1 - 2 hours Second Coat to First Coat: 4 - 6 hours Final Coat to Reinforcement (Second Coat): 12 - 24 hours
Final Curing Time	: 2 days (Preferably Longer)
Protective Screed/Concrete	: After 48 - 72 hours (Preferably Longer)
Application temperature	: Substrate Temperature: 8 - 35°C Ambient Temperature: 8 - 35°C
Relative Humidity	: Maximum of 80%
Dew Point	: Surface temperature must be +3°C above dew point
Substrate	: No condensation or standing water on the substrate

## TECHNICAL DATA

Tensile Adhesion strength : (28 days air dry ASTM D7234-12)	: > 1.0 N/mm <sup>2</sup>
Elongation at Break : (28 Days Air Dry ASTM D412 - 16)	: > 600% (without reinforcement)
Water Penetration	: Very low water permeability
Adhesion Performance	: Very Good
Crack Bridging	: Very Good
UV Resistant	: No
Weather Resistant	: No

## DESCRIPTION :

EziWP B188 PU-BITULASTIC is a single component, high performance, elastic, polyurethane modified, conceal waterproofing solution. Specially designed for a variety of building application to protect and prevent penetration of water.

## KEY FEATURES :

- Eco-Friendly - Low VOC & Non-Toxic
- Super high bond strength for improved adhesion to a variety of well prepared substrates
- Single component solution that is user-friendly & eliminate site use error
- Improved durability with modified polyurethane recipe for longer service life
- Elastic properties for superior crack bridging

## KEY USAGE:

- Roof
- Balconies
- Toilet
- Kitchen
- Retaining Wall
- Walkway
- Podium
- RC Gutter
- Patio
- Foundation



## WORKING INSTRUCTION :

When working with EziWP B188 PU-BITULASTIC it is highly recommended to follow the application method stated below:

### Surface Preparation :

- Surface must be dry, sound & free of contaminants eg. dust, laitance, oil, loose particles & friable sections.
- New concrete must be aged for at least 28 days; prior to application with Tensile Strength  $\geq 1.50 \text{ N/mm}^2$ .
- New cement-sand render / screed must be cured for at least 7 - 14 days.
- Old concrete and render / screed that is wet or damp must have minimum 24 hours air drying (preferably longer where required).
- Cement or mineral substrate must be mechanically prepared appropriately using abrasive blast cleaning or scarifying equipment to remove cement laitance & create an open texture.
- Loose, friable sections, blowholes or voids must be identified, removed or made good.
- Substrate to receive EziWP B188 PU-BITULASTIC must have sufficient gradient to avoid water ponding.
- Any surface protrusion that is more than 3mm must be removed or grinded off.

**Note :** Prior to application of EziWP B188 PU-BITULASTIC all internal corners (angles), weak points and/or joints must be treated with Angle Fillet (Polyurethane Sealant or Latex Modified Cement-Sand Mortar), Joint Sealing Tapes, Non-Woven Polyester Fleece or Fiber Mesh; or any treatment deemed appropriate as per the manufacturer's recommendation. Kindly refer to work method statement for details.

### Mixing Method :

No mixing required, however stir well before use.

### Application Method :

For effective protection & waterproofing results a two (2) coat application is highly recommended on the well prepared substrate.

### Standard System :

- A Primer Coat ( $\sim 0.20 \text{ kg/m}^2$ ) with EziWP B188 PU-BITULASTIC + 10% Water must be applied onto the substrate.
- Apply First Coat ( $\sim 0.70 \text{ kg/m}^2$ ) of EziWP B188 PU-BITULASTIC; 1 - 2 hours after primer coat treatment.
- Apply Second Coat ( $\sim 0.70 \text{ kg/m}^2$ ) of EziWP B188 PU-BITULASTIC; 4 - 6 hours after First Coat treatment.
- It is important to ensure that there are no bubbles, creases or pinholes.
- At joints between application overlap EziWP B188 PU-BITULASTIC at junction with overlapping width of 80 - 100mm.
- The Second Coat must be applied from a right angle (or crosswise) direction onto the First Coat.
- It is important that the waterproof coating is applied consistently in terms of final coating thickness that are sufficient to eliminate pinholes or voids.
- Waterproof coating applied must be seamless; and that it is applied throughout the floor areas with a minimum wall upturn of 300mm; creating a waterproofed tanking system.

### Reinforced System :

- A Primer Coat ( $\sim 0.20 \text{ kg/m}^2$ ) with EziWP B188 PU-BITULASTIC must be applied onto the substrate. Dilution ratio is 1 Part EziWP B188 PU-BITULASTIC to 1 Part Water.
- Apply First Coat ( $\sim 0.70 \text{ kg/m}^2$ ) of EziWP B188 PU-BITULASTIC; 1 - 2 hours after primer coat treatment.
- Apply Second Coat ( $\sim 0.50 \text{ kg/m}^2$ ) of EziWP B188 PU-BITULASTIC; 4 - 6 hours after First Coat treatment.
- On the Second Coat apply Fiber Mesh or Non-Woven Polyester Fleece and roll it in; ensuring no bubbles or creases and overlap joints at 50mm width.
- Apply Final Coat ( $\sim 0.50 \text{ kg/m}^2$ ) of EziWP B188 PU-BITULASTIC; 12 - 24 hours after Second Coat treatment.
- Ensure that the Final Coat is able to fully cover Fiber Mesh or Non-Woven Polyester Fleece; and that it is finished smooth.
- It is important to ensure that there are no bubbles, creases or pinholes.
- At joints between application overlap EziWP B188 PU-BITULASTIC at junction with overlapping width of 80 - 100mm.
- The Second Coat must be applied from a right angle (or crosswise) direction onto the First Coat, and similarly for Final Coat over the Second Coat.
- It is important that the waterproof coating is applied consistently in terms of final coating thickness that are sufficient to eliminate pinholes or voids.
- Waterproof coating applied must be seamless; and that it is applied throughout the floor areas with a minimum wall upturn of 300mm; creating a waterproofed tanking system

### Note :

- It is important to pay attention to all the details; prior to commencing application of waterproofing to the main vertical / horizontal areas as per the steps described above.
- Prior to application of subsequent layer; ensure that previous layers must be cured or tack free.
- All internal corners (angles), joints, weak points or critical areas must be treated with Angle Fillet (Polyurethane Sealant or Latex Modified Cement-Sand Mortar), Joint Sealing Tapes, Non-Woven Polyester Fleece or Fiber Mesh; or any treatment deemed appropriate as per the manufacturer's recommendation.
- The proposed waiting time between application of layers are based on 20 - 30°C at 50% relative humidity.

### Tools :

- Brush: Thick hair brush or Roller: Solvent resistant, short-piled lamb skin roller.

• Airless Spray Machine: Recommended for Standard System only. Apply a minimum of 2 layers in crosswise direction. Ideally the pump & sprayer should have the following specification: Minimum pressure @ 220 bar / min. output: 5.1 l/min; with minimum nozzle diameter of 0.83mm.

**Note :** Tools can be cleansed immediately after use using water. Hardened or cured materials can only be removed using mechanical means.

### WORKING PRECAUTION / LIMITATION :

- Never apply on substrates with rising moisture / dampness.
- Apply during reducing ambient and substrate temperature. Application during rising temperature may result in pinholes due to rising air. Avoid application under direct sunlight & during wet weather condition.
- Temperature must not drop below 8°C and Relative Humidity must not exceed 80% until the waterproof membrane had fully cured.
- Preceding coat must be thoroughly dry & free of pinholes; before applying subsequent coats.
- Avoid water ponding between coats on any horizontal surfaces or until the final coating has totally cured. Broom or mop surface water away.
- Roofs subjected to long term water ponding and subsequent periods of frost; should not be treated. In cold climatic zones for roofing structures with a pitch of less than 3% appropriate measures must have to be considered.
- Not suitable for direct application onto insulation boards.
- After final coat treatment protect it for 48 hours and it should not be exposed for prolong period of time. Proper shelter must be provided for exterior application.
- Prior to screeding over the waterproof membrane, it is recommended to incorporate 1 - 2 layers of polyethylene sheet at the interface to function as a separating layer.
- Avoid application on dusty or friable substrate; until it is made good.

## MATERIAL SAFETY INFORMATION

**Product Name :** EziWP B188 PU-BITULASTIC

### Manufacturer :

Ezi MOTARTECH SDN. BHD. (874800-D)

### Hazard Statement :

Causes skin and eyes irritation. May harmful if swallowed.

Warning

### Precautionary Statement :

Wash hands thoroughly after handling. Wear suitable protective clothing, glove and eye/face protection. If inhaled, immediately approach to fresh air. If in eyes, immediately flush eyes, including under eyelids with large amount of water. If ingestion, flush out mouth with water. If skin contact, remove contaminated clothing and wash the contaminated body part with mild soap & clean water.

When working with this product, recommended to follow the safety precaution below :



WEAR DUST MASK



WEAR SAFETY GOGGLES



WEAR HAND GLOVES



WEAR SAFETY SHOES



KEEP AWAY FROM CHILDREN

## COMPANY INFORMATION

**MANUFACTURED BY :** Ezi MOTARTECH SDN. BHD. (874800-D)

### FACTORY / WAREHOUSE

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PENANG : 1888, Jln. Lahar Bubu, Kepala Batas, 13200, Penang.  
PERAK : PT 990, 2 1/2 KM Off, Jln Simpang Pulau Lahat, 31300 Kampung Kepayang, Perak.

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