

# HYDROLASTIC PU-B

## Single Component Water Based Bitumen Extended Polyurethane Liquid Waterproofing Membrane

### Description:

HYDROLASTIC PU-B is a water based cold applied, single component, fully adhered of modified Polyurethane dispersion extended with bitumen emulsion. It has excellent adhesion to most substrates including concrete, plaster, masonry, bituminous roofing felts, and metal and asphalt coatings. HYDROLASTIC PU-B cures to form a seamless, high flexible, continuous monolithic membrane. It is ideally recommended as a waterproofing system for building including foundations, kitchen and toilet floors, building facades, roofs, foam slabs, masonry, etc.

### Uses:

HYDROLASTIC PU-B is designed as a waterproofing suitable for vertical, horizontal and overhead application. Typical uses include:

- Damp proofing of facades.
- Wet areas, kitchens and bathrooms waterproofing.
- Water proofing concrete panels with potential of movement.
- Roofing and corrugated sheets waterproofing.
- Coating for Cement pipes and metal.
- Retrofit roofing over torch applied membrane, EPDM, PVC, TPO, Metal roofs, plywood, spray form and many coatings.
- Wet areas: showers, bathrooms, kitchens, balconies, planters, pools, especially in public used utilities
- Swimming pools and water parks waterproofing, where high features of waterproofing membrane are required.
- Intermediate layer in car parking flooring systems where a flexible membrane is required to create a deck water proof car parking systems for multi store parking area.

### Advantages:

- Water based, Environmentally friendly product with no odour risk.
- Superior water proofing membrane.
- Elastomeric, highly flexible.
- Excellent resistant to chloride and sulphate attacks
- Excellent adhesion to substrate
- Ideal maintenance solution for waterproofing damages roofing membrane
- Easy application due to paintable consistency.
- Ensure great protection against corrosion.
- Resistant to underground soil ground water aggressive effect.
- High resistant to puncture and impact

### Instructions for Use:

#### Surface Preparation:

The surface should be cured sound, clean, dry and free from loose and flaking materials, efflorescence, laitance, curing compounds, dirt, oil, rust, grease or other contaminants. In case of the contamination, use mechanical methods like grinding or grit captive blasting in order to remove deep contamination.

All shrinkages and nonmoving structural cracks under 1.0 mm shall be filled with not less than 0.5 mm thick pretreatment strip of HYDROLASTIC PU-B extended to 50 mm on both sides of the crack. For parapet walls, columns, make a 45° coving fillet at all corners using LAVAREP F40. Apply a reinforcing pretreatment strip of HYDROLASTIC PU-B 250 micron thick extending 100 mm on both sides of the coving. Voids and honeycombs must be patched with concrete repair products.

Usually, for well-prepared surfaces, primer will not be needed. For porous surfaces, a 30% thinned coat of HYDROLASTIC PU-B with water can be applied to serve as a primer.

# HYDROLASTIC PU-B

All metal surfaces to be treated with sand blasting or mechanical preparation method to reach bright steel condition, apply the product directly to prevent steel reaction with air moisture and formation of corrosion.

For expansion joints, treat the expansion joint with MEGASEAL PU. When the sealant is cured, a layer strip of HYDROLASTIC PU-B, 200 mm wide should be applied centered over all sealed joints. While the membrane is still wet, cover with a correct cut strip of fiber mesh, then apply another coat of HYDROLASTIC PU-B until it is fully covered. Allow the applied strip to cure before applying further coats of the waterproofing membrane.

## Mixing:

HYDROLASTIC PU-B is a single component product. Mix the contents in the pail with a slow speed mixer to ensure homogenous mix.

## Application:

HYDROLASTIC PU-B can be applied with a roller, trowel, brush or spray machine. For wet areas (kitchen, bathrooms, etc.) It is recommended to apply two coats to achieve a dry film thickness of 1mm in case of roller or brush applications, apply the first coat to the surface in a spread rate of 500 g/m<sup>2</sup> the second coat should be applied to the first coat after it cures with same rate of application preferably in 90 degree direction

For enhanced protection of concrete surfaces, or when the substrate is affected by mechanical loads, it is recommended that all weak areas including surface cracks, joints and areas around pipes and projections, be reinforced by embedding woven fiberglass mesh strips between two coats of HYDROLASTIC PU-B.

Do not leave the applied membrane exposed for elongated periods. Once the membrane cures, apply protection sheets or screed mortar to ensure proper protection.

Tile adhesives can be applied to HYDROLASTIC PU-B membrane after it is completely cured. To provide a good mechanical key with the membrane, spread the final coat of HYDROLASTIC PU-B with clean silica sand while it is still wet. Finished flooring installations should be carried out as soon as possible after full cure of membrane is established.

## Standards:

HYDROLASTIC PU-B conforms to

- BS 6949, ASTM D412, C836, D624

## TECHNICAL PROPERTIES

Color	:	Black
Density	:	1.19 kg/Ltr.
Solid Content	:	>65%
Touch dry	:	12 hours
Full Cure	:	7 days
Crack Bridging	:	>2 mm
% Elongation (ASTM D412)	:	>800%
Tensile Strength (ASTM D412)	:	2.7 N/mm <sup>2</sup>
Water vapor permeability (ASTM E96)	:	0.26 perms
Application Temperature	:	+5° to +40°C
Service Temperature	:	-20° to +70°C
Adhesion to concrete	:	2 N/mm <sup>2</sup>
Tear Strength	:	24 N/mm <sup>2</sup>

## Packaging:

HYDROLASTIC PU-B is available in 20 Kg plastic pails.

## Coverage:

One litre of HYDROLASTIC PU-B achieves coverage of 1 m<sup>2</sup> @ 650 micron dry film thickness.

## Storage:

Stored in original packing in dry conditions away from direct sunlight and high humidity levels.

## Shelf Life:

HYDROLASTIC PU-B can be utilized within 12 months.

## Cleaning:

Clean all tools with clean water before product hardens.

## Health and Safety:

- Use goggles and gloves during application. Do not breathe the vapor of the product. Use only in well ventilated areas.
- Avoid contact with eyes or skin. In case of eyes contact, clean immediately with plenty of clean water and seek medical care.

MATEX Rev.02-0421

This technical data sheet is not considered as local building codes. It shall be used as general reference for the product, based on our current knowledge and experience. However the company do not accept any liability arising from the use of its products as it has no direct control on how and where the product is applied.

