Technical Data Sheet

HYDROLASTIC BP2000

Water Based Bitumen Extended Hybrid Polyurethane Membrane

Description:

HYDROLASTIC BP2000 is VOC-Free water based cold applied, single component, fully adhered advanced technology of modified Polyurethane dispersion extended with bitumen emulsion. It has excellent adhesion to most substrates including concrete, plaster, masonry, bituminous roofing felts, metal and asphalt coatings. HYDROLASTIC BP2000 cures to form a seamless, high flexible, continuous monolithic membrane. It is ideally recommended as a superior waterproofing application for building structures including foundations, kitchen and toilet floors, building facades and roofs.

Uses:

HYDROLASTIC BP2000 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.
- Damp proofing of cement sheets.
- Water proofing concrete panels with potential of movement.
- Roofing and corrugated sheets waterproofing.
- Coating for Cement pipes and metal.
- Water proofing of cold store walls.
- Roofing & re-roofing between slab
- Waterproofing tunnels, planters, plaza decks, etc.
- Retrofit roofing over torch applied membrane, EPPDM, PVC, TPO, Metal roofs, plywood, spray form and many coatings.

Advantages:

- Water based, friendly product with no odour risk.
- Superior water proofing membrane.
- Elastomeric, highly flexibility more than 2000%.
- 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.
- Forms a seamless and monolithic membrane
- High resistant to puncture and impact
- Environmentally friendly, with VOC free and LEED eligible.
- Highly elastic, with full recovery
- Excellent thermal cycling

Instructions for Use:

Surface Preparation:
The surface should be sound, clean, dry and free from loose and flaking materials, efflorescence, laitance, curing compounds, dirt, oil, rust, grease or other contaminants. Concrete should be cured for at least 28 days and have moisture content less than 7%. 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 BP2000 extended to 50 mm on both sides of the crack. For parapet walls, columns, make a 45°C coving fillet at all corners using LAVAREP F40. Apply a reinforcing pretreatment strip of HYDROLASTIC BP2000 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 50% thinned coat of HYDROLASTIC BP2000 with water can be applied to serve as a primer.

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

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of HYDROLASTIC BP2000, 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 BP2000 until it is fully covered. Allow the applied strip to cure before applying further coats of the waterproofing membrane.

Mixing:

HYDROLASTIC BP2000 is a single component product. Mix the contents in the pail with a slow speed mixer to ensure homogenous mix.

Application:

HYDROLASTIC BP2000can 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 500 micron in case of roller or brush applications, apply the first coat to the surface in a spread rate of 250 g/m² 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 BP2000.

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 BP2000 membrane after it is completely cured. To provide a good mechanical key with the membrane, spread the final coat of HYDROLASTIC BP2000 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.

HYDROLASTIC BP2000 may be applied to damp but not wet surfaces, dampen brushes before and occasionally during use to avoid clogging and ease application. During hot, dry weather application may be assisted by dampening the surfaces to be treated.

Standards:

HYDROLASTIC BP2000 conforms to

- BS 6949, ASTM D412, C836, D624

TECHNICAL PROPERTIES		
Color	:	Black
Density	:	1.05 kg/Ltr.
Solid Content	:	>60%
Touch dry	:	12 hours
Full Dry	:	3 days
Crack Bridging	:	>2 mm
Adhesion to concrete (ASTM D4541)	:	1.8 N/mm²
Shore A hardness (ASTM D2240)	:	40
% Elongation (ASTM D412)	:	>2000%
Tensile Strength (ASTM D412)	:	3.40 N/mm²
Impact Resistance (ASTM D3746)	:	No effect
Water vapor permeability (ASTM E96)	:	0.26 perms
Application Temperature	:	+5° to +35°C
Service Temperature	:	-20° to +60°C
Tear Resistance (ASTM D624)	:	8.1 N/mm²

Packaging:

HYDROLASTIC BP2000 is available in 20 Kg plastic pails.

Coverage:

One litre of HYDROLASTIC BP2000 achieves coverage of 2 m² @ 500 micron dry film thickness.

Storage:

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

Shelf Life:

HYDROLASTIC BP200 can be utilized within 12 months.

Cleaning:

Clean all tools with clean water before product hardens.

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Remarks:

- Normally good quality concrete substrates do not require priming. However, porous surfaces require priming. To reduce blisters caused by air entrapment on rough and porous surfaces, use HYDROLASTIC BP2000 thinned with 50% water as a primer.
- Do not apply tile adhesives to HYDROLASTIC BP2000 membrane, spread the final wet coat of HYDROLASTIC BP2000 WITH sufficient clean silica sand.
- Extended periods of exposure requires protection to eliminate possible surface damage or to avoid contamination, by applying screed mortar bedding or protection boards. Tiling or finished flooring installations should be carried out as soon as possible after full cure of membrane is established. If protection be used to prevent adhesion of the membrane to the boards. Where a bond with the topping is not required, a separator

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.

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