

Premier Grade/High Performance Polyurethane Elastomeric Liquid Cold Applied Waterproofing Membrane

New Formulate Two Component system for Worldwide

Description **Build Bond 2K** is a two component, modified polyurethane solvent free based, waterproofing elastomeric coating that cures by reaction with atmospheric moisture to form a tough but flexible waterproofing membrane.

Recommended For **Build Bond 2K** is designed to be used as an effective waterproofing membrane in a variety of structures both above and below grade. Application includes.

- Internal tanking of pools, water tanks, slumps, reservoirs, etc before tiling or other surface finishing.
- Suitable for external tanking of masonry/concrete walls of basements, swimming pools sumps, subways.
- Waterproofing of terraces, balconies, kitchens, toilet floors.
- All types of reinforced concrete, roof slab & gutter.
- All types of reinforced concrete, basement floor & wall.

Tested Approved by British Board of Agreement requirement (BBA)
Japan requirement JIS A 6021:1995

Advantage & Properties The specific advantage offered by this Two Component is that it can stand moderate movements of less than 0.02 mm or hairline cracks. No joints or laps to allow ingress of water. Tar free, more environmental friendly. The membrane withstands exposure to subsoil salts, sewage, water treating chemicals, etc. more effectively, versatile. It saves time and labour.

Mechanical of Properties Specification (Result tested at 25 °C)

Elongation at break	ASTM D 412	%	>300
Shore A Hardness	ASTM D 2240	%	82 (7 days cured)
Tensile Strength	ASTM D 412		>5.95 N/mm ²
Solid (cured coating)		%	65
Water Vapour Transmission	ASTM E 96	g/m ² /24 hrs	0.85
Specific Gravity		g/cm ³	1.19
Cracking Bridging	ASTM C 836		>12mm
Working Time		°C	20°C: 3.5 hour
Serving Temperature		°C	-40°C to 60°C
Minimum Recovery		%	96.2
Swelling in Water/Water Pond		%	0.08 (3 days)

Surface Preparation Correct substrate preparation is critical for optimum performance. New concrete must be properly water cured for at least 14 days. It is recommended to avoid using curing compounds for curing the surfaces that will be treated with **Build Bond 2K**.

In new construction, ensure that the drains, vents and drain openings are properly located. Surfaces should be structurally sound, clean dry and free from loose particulars, mould release agents curing membranes and other contaminants must be removed by wet grit blasting, high pressure water jetting (approx. 150 bars) or other such effective methods.

<u>For Existing Leaks:</u>	Arrest all existing water leaks from the surface using Waterplug or other suitable method.
<u>For Surface Defects:</u>	Repair all static cracks using Sealant
<u>For Dynamic Joints:</u>	Use Sealant to seal the joints. Apply a debonding coat of wax or bond breaker tape over the cured sealant before the application of Build Bond 2K .
<u>For Vents, Drains, Pipes:</u>	Clean any rust from the metal pipes and vents. Apply anti-rust treatment such as followed by a protective paint before refitting. Cut off approximately 10mm wide groves around any pipe protrusions and seal them with Sealant.
<u>Pre-Treatment:</u>	Apply a 1mm wet coat of Build Bond 2K on all areas repaired as above, including expansion joints, using a squeegee. Extend the coating to about 100mm around repairs. Install fillets in all corners to facilitate a continuous membrane after application.
Priming:	<p>Priming is not normally required on good quality concrete surfaces.</p> <p>However, priming is required on porous and absorbent surfaces, prime the surfaces with a thin coat of Build Bond Primer diluted with 20% of xylene by volume, using squeegee, to fill air voids completely. Air entrapment with voids may cause blisters. When the surface is dry and tacky, apply the body coat.</p> <p>Avoid application during inclement weather or when it is imminent. Apply Build Bond 2K when substrates are dry and temperatures are between 14°C to 38°C.</p>
Method of Application	<p>Apply Build Bond 2K evenly onto the prepared surfaces with a stiff brush, rubber edged notched squeegee or by airless spray to a wet film thickness of 1.00 – 2.00 mm.</p> <p>On horizontal surfaces, Use a wet film thickness gauge to monitor coating thickness. Extend the coating to skirt the peripheral vertical surfaces at least up to a level slightly higher (200mm) that the final finished level of the surface</p> <p><u>For Normal Light Traffic Cement Sand Screed is not required:</u></p> <p><u>*** For Heavy Duty Traffic Cement Sand Screed is required:</u></p>
Curing	Build Bond 2K is self curing. Full cure is normally achieved within about 2 days depending on ambient temperatures and humidity.
Estimating Data	The minimum recommended coverage of Build Bond 2K is to obtain a 1.00 - 2.00 mm thick dry film build. Actual coverage depends upon the method of application and the texture and porosity of the surface.
Packing	25.00 kg Set Part A 21.875 kg & Part B 3.125 kg
Available of Color	Red, Green, Yellow, Blue, Orange, Brown, White & Black
Form Supply	Liquid type for Part A & B.

Thickness Require **Floor Surface: 1.50 to 2.00mm**

Wall Surface: 1.00 to 1.50mm

Storage Shelf Life 12 months from date of manufacture if stored in tightly sealed original packaging, in dry and cool enclosed area.

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Health & Safety Some of the components of this product may be hazardous during mixing and application. Please consult the relevant Health & Safety Data Sheets, available from **LAMACO Malaysia** on request and sent with each delivery.



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