

THE LAB^o

Chemicals & Coatings

-HB BITUSEAL-

TECHNICAL AND MATERIAL SAFETY DATA SHEET

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SUPPLIER IDENTIFICATION AND INFORMATION

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PRODUCT IDENTIFICATION

THE LAB HB BITUSEAL Brush Grade

Description

The Lab HB Bituseal is a modified elastomeric bitumen emulsion specifically formulated to be applied by brush, roller or specially designed spray equipment. The Lab HB Bituseal is a cold applied single component product designed for a wide range of protective coating applications. The product technology used in The Lab HB Bituseal provides a solvent-free, quick setting coating that produces the ultimate seamless waterproof membrane with excellent strength and flexibility. The Lab HB Bituseal is an environmentally friendly waterproofing product that can be applied indoors and outdoors with no special protective equipment.

FEATURES

- Non-toxic
- LOW-VOC and solvent free
- Easy to use and repair
- Odorless and non-flammable
- Excellent adhesion
- Good chemical resistance
- Extremely strong and flexible
- Water based
- Suitable for interior or exterior use
- Permanently flexible

USES

The Lab HB Bituseal is primarily used as a protective coating to prevent water ingress and corrosion damage. It can be used for corrosion protection of ferrous materials and is also effective for noise and vibration reduction. The Lab HB Bituseal can be applied to roofs, tanks, troughs, retaining walls, planter boxes, slabs, wet areas and decks. It will stick to masonry, bricks, pavers, render, cement sheeting, concrete, steel and wood.

The Product is used to prevent water and vapour transmission between concrete slab and wear slabs, etc. The Product will bond to majority of surfaces, including poured concrete, with the bond strength being heightened by compression, even once cured.

TECHNICAL DATA

PHYSICAL PROPERTIES

	Typical results
Specific gravity (liquid) g/cm ³	Approx. 1.0
Odour	None
VOC	Contains no solvents
Colour	Brown to black
% solids (wt)	53-58
Viscosity, SSF @ 25°C, seconds	15-20
pH	10-12

PERFORMANCE (cured membrane)

Property	Typical
Colour	Black
Specific gravity, g/cm ³	Approximately 1.0
Chemical resistance	Chemical Resistance chart.
Biological resistance ASTM E 154, ASTM D412	Passed (> 90% original value)
Impact resistance CSB 37-GP-56 @ 23 oC, in-lbs. Water tightness after impact	Passed (168) Passed (no leakage)
Tensile strength ASTM D412, psi	>80
Elongation, %	>750
Salt Fog Corrosion, ASTM B117-97 (scribed), 1000 hrs.	Passed
Surface corrosion, ASTM D610, 1000 hrs	None detectable
Blistering, ASTM D714, 1000 hrs	None
Corrosion creepback, ASTM D 1654, 1000	None
Adhesion on to Concrete Strength ASTM C 907, psi	>100
Puncture resistance CGSB 37-GP-56, 24 hr @ 29N, -5 oC	Passed (Nodeterioration of film) Passed (> 90% original value)
Accelerated weathering, ASTM G 155, D 412 Tensile strength	Passed (Nodeterioration of film)
Hardness, Durometer Type 00	85-87

APPLICATION INSTRUCTIONS

The Lab HB Bituseal is a water based, environmentally safe alternative to conventional heat-applied or solvent based waterproofing systems. When cured it will form the ultimate seamless flexible membrane. The Lab HB Bituseal is a single component product that may be applied by brush, roller, poured on or spray applied using specially designed spray equipment. The Lab HB Bituseal cures by evaporation, so an application temperature of 15 - 40°C is recommended. It completely cures within 24 hours at 30°C and 50% relative humidity when applied at a thickness of 1mm.

The Lab HB Bituseal should be applied to a dry surface which is free of dirt, debris, oil or grease. Application is not recommended if heavy rain is imminent, or in high humidity environments. For best results apply in thin coats and leave to dry for at least 12 hours. Joints or cracks in the surface should be reinforced using Polyethylene Reinforcing Fabric. See application instructions or consult with a DIY Waterproofing representative for further details.

The Lab HB Bituseal can be applied between 1.5 - 4sqm for a dry film thickness of 1mm - 3mm protective membrane. Typically, The Lab HB Bituseal dries to the touch in one minute @ 30°C and is completely cured in 48 hrs. Curing time may vary depending on temperature and relative humidity.

LIMITATIONS

The Lab HB Bituseal is mildly alkaline. When applying this product observe appropriate safety precautions, wear gloves, eye protection and other suitable protective equipment. For further information please consult the product SDS. The Lab HB Bituseal should not be applied when the ambient temperature is below 15°C. The uncured membrane may be damaged if frozen. Do not apply to wet surfaces or directly before rain. Some surface base coat materials such as coal tar are unsuitable for use with the The Lab HB Bituseal.