



Sealants

bitumen based products

BITULASTIC LM

***(LIQUID MEMBRANE – COLD APPLIED)
MEMBRANE AND JOINT & CRACK FILLER***



Description

Bitulastic LM is a solvent based cold applied sealant and membrane modified with SBS Polymer. This material is a high performance product developed by extensive laboratory research and field trials.

Bitulastic LM is formulated to provide the Road Making, Construction & Building industries with a long term high performance crack filler and water proof barrier coating. It is suitable for cracked asphalt roads and as a joint sealant in concrete slabs and expansion joints and may also be used as waterproofing membrane.

With 60% solids by mass, and when applied at ambient temperature, ***Bitulastic Liquid Membrane*** produces optimum sealant properties within several hours after application depending on absorption rates and weather conditions.

For crack sealing, once pouring and sand blinding has been completed, the treated area can be trafficked immediately, (ensuring that the sand used to blind the surface is a moderately coarse material with minimal clay fines.)

The product has extremely high adhesion properties on many surfaces that reject adhesion by other cold applied sealants. ***Bitulastic LM*** Crack Filler will retain its flexibility and elastic properties during repeated joint expansions and contractions over a wide temperature range.

USES

Cracks developed in weathered and oxidized pavements, cracks in low volume roadways, airport runways, sprayseal cracking, water retaining structures, concrete roofs, roof penetration ducting, factory flooring and draining and sewerage pits.

JOINT DIMENSIONS for crack sealing:

Width Minimum 5mm – Maximum 50mm

Depth Minimum 15mm – Maximum 50mm

In general a wide shallow joint should be preferred to a narrow deep joint.

Width/Depth ratios of 1:1 to 2:1 are preferred.

Cracks smaller than 5mm may be treated by thinning Bitulastic LM up to 10% with mineral turps to reduce the viscosity to enable penetration.

BITULASTIC LM

MEMBRANE APPLICATION

May be applied by brush, roller and spray application over bare concrete and masonry surfaces. For new work, it is recommended that the first coat is thinned 10% with mineral turps to allow sufficient penetration and priming characteristics. The higher the film build, the slower the drying time. Several thin coats are better than one thick one. Coverage rates vary with surface conditions and 5 square meters per litre can be used as a guide.

PROPERTIES

ELASTICITY: When cured the material has an elongation factor of at least 500% with a 100% recovery rate.

ADHESION: Extremely high when applied to a properly prepared surface. On concrete joints or cracks, a primer should be used. Bituminous Hot Pour Primer recommended.

TEMPERATURE RANGE:

Bitulastic LM Crack Filler has an effective service temperature range of -10°C to $+60^{\circ}\text{C}$. The product retains its elastomeric properties through this range.

COLOUR: Black

CHEMICAL RESISTANCE:

Excellent:	Salt Water, Water and Alkalis
Good	Methylated Spirits, Road Traffic
Fair	Ultra Violet, Greases, Diesel Fuel
Poor	Mineral and Vegetable Oils, Petrol

STORAGE LIFE: If the container is correctly sealed after each use, *Bitulastic LM* may be stored for approximately 12 months without deterioration.

SURFACE PREPARATION

It is essential that surface preparation be carried out as recommended to ensure that the highest performance is achieved.

The surface/ joint must be clean and free of old sealing compounds, dust, scale, grit, loose stones, oxidized bitumen and surface grime.

APPLICATION

Clean the surface/crack with compressed air thoroughly to allow penetration of the sealant providing adhesion to the substrate or joint walls.

In Roadway: After pouring flush with the pavement surface cover with sand to prevent pick up by car tyres whilst the membrane dries. Once sand blinding is completed the treated area may be trafficked.

On Concrete Slabs/Decking: Same as above, you must allow the membrane to cure thoroughly prior to heavy vehicle traffic. On decking allow drying completely prior to attaching metal decking or other materials.

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MEMBRANE SEALANT

Bitulastic LM also performs extremely well as a waterproof membrane for retaining walls, pits and roofs. *Bitulastic LM* **should not** be used on retaining walls where the surface is very smooth and non-porous. CUTBACK 100 should be used on such surfaces.

In roofing applications, SPRAYABLE SILVER should be used over *Bitulastic LM* for UV protection.

PACKAGING Bitulastic LM comes in 20L, 205L

Steel containers are recyclable provided they are empty and any residual product is dry.

Safety

Refer to Safety Data sheets before use.

Eliminate all potential ignition sources during application.

Avoid breathing vapours.

Avoid contact with skin.

Always wear appropriate PPE

DO NOT allow product or washings to enter stormwater or sewer systems.

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