



Sealants

bitumen based products

BITULASTIC BITUFLEX

hot poured Bitumen-rubber joint sealing compound



Dangerous Goods when hot

DESCRIPTION

Bitulastic Bituflex is a hot poured Bitumen-rubber joint sealing compound. The product is formulated to provide the Road Making and Building Industries with a long term performance joint and crack filler for corrective maintenance to cracking in asphalt and concrete roads and as a joint sealant in concrete slabs and expansion joints.

With 100% solids by volume and applied at a temperature range of 180 C to 195 C,

Bituflex produces optimum sealant properties in 5 minutes after application.

Bituflex will retain its flex-ability and recovery properties during repeated joint expansions and contractions over a wide temperature range.

SPECIFICATION

| TEST METHOD | CONDITIONS | SPECIFICATIONS |
|--|--|----------------|
| AS2341.12 Determination of Penetration dmm | @ 25 °C, 100 grams, 5 Seconds. | 30-45 DMM |
| AS2341.18 Determination of Softening Point | Glycerine Bath | 98°C minimum |
| AG:PT/T122 Torsional Recovery | 25°C, 10secs rotation 30secs recovery | 50% minimum |
| AS2341.11 Elongation | 25 °C | 300% min |

USES

Expansion joints and cracks in roadways, factory floors, airport runways, water retaining structures and roof decks.

JOINT DIMENSIONS

Width: Minimum 5 mm – Maximum 50 mm

Depth Minimum 15 mm – Maximum 50 mm

In general a wide shallow joint should be preferred to a narrow deep joint. Width/Depth ratios of 1:1 to 2:1 are preferable. Cracks of course, tend not to be uniform in depth or width and may be filled with **Bitulastic Bituflex**.

PROPERTIES

ADHESION: All concrete joints should be primed with Hot Pour Primer

COLOUR: Black

Bitulastic Bituflex

DENSITY: Approximately 1 kg per Litre

CHEMICAL RESISTANCE:

| | |
|---------------|--|
| Excellent- | Acids and Alkalis, Water, Salt Water |
| Good- | Methylated Spirits, Road Traffic, Heavy Uses |
| Fair to Good- | Ultra Violet, Greases |
| Poor- | Mineral and Vegetable Oils |

Bitulastic Bituflex can be used in potable (drinking) water reservoirs imparting no taint (taste). Bitulastic Bituflex is not soluble in water.

MAXIMUM SLOPE OF JOINT: 1:2

PACKAGING: Bitulastic Bituflex is supplied in 20kg kegs.

APPLICATION PROCEDURES:

Preparation: Joints (old and new) should be dry and clean. Care should be taken to ensure that any joint filler already in the joint is not damaged or could cause the new material to not adhere correctly. The performance of the seal is largely dependent upon the thoroughness of joint preparation and type of primer used (if any). The joint must be cleaned of all sealing compound if damaged, dust, scale, grit, loose stones and surface debris. Proper cleaning of joints should be done by way of compressed air in the joint itself in order to remove debris and dust. Surface dust will not allow the new sealant to adhere to joint walls and will cause the material to peel away.

Please Note: When applied to asphalt road cracks as crack filler. **NO** priming is required prior to the application of sealant.

Priming of Joints: Concrete – Brush or spray **HOT POUR PRIMER** into the joint at the rate of 10 square meters per litre. Drying time is approximately 20 minutes depending on ambient temperatures at time of application.

Application of Sealant: *Bitulastic Bituflex* should be poured at 180c to 200c to ensure proper adhesion.

For concrete joints - sealant should be kept below existing surface elevations.

For asphalt joints - sealant should be applied to create an overband of 25mm on both sides of crack to ensure voids are filled in and around the crack.

For roof decking - sealant should be squeegeed to corners and up walls to ensure complete seal of decking.

HEATING:

There are a number of different types of heating vessels used to melt down the sealant. An indirectly fired heating kettle should be used with intermittent stirring.

Avoid repeated cycling through heating and cooling down as this will detract from the sealants properties

Bitulastic Bituflex

Do not allow the sealant to get too hot, because it may burn the polymers out of the sealant causing the material to become stiff and unusable. Temperature greater than 195°C is not necessary and will quickly degrade the elastic properties of the sealant. Excessive temperatures greater than 200°C will not only destroy the sealant's properties but may also result in a fire.

Heating Oil Transfer Systems should be used on large projects for easier applications. Mobile automatic kettles of 100 litres nominal capacity are available for hire from Bituminous Products Pty. Ltd.

Safety

Class 9 Dangerous Goods when hot

Refer to Safety Data sheets before use.

Transport, use and store at the lowest temperature possible.

Eliminate all potential ignition sources during application.

Avoid breathing vapours.

Avoid contact with skin.

Always wear appropriate PPE including heat protection when used hot.

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

BITUMINOUS PRODUCTS

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