



BITMAS TL-82 DK

Hot applied Bitumen/Elastomer Joint Sealant

Uses

BITMAS TL-82 DK is used for sealing joints and cracks in asphalt and concrete pavements and asphalt to concrete transition joints. Particularly suitable for runways, taxi ways, pavements, roads, etc.

Advantages

- * Supplied in convenient packages of 10 kg cartons.
- * Durable and watertight joints.
- * Good flexibility even at sub-zero temperatures.
- * Low specific gravity gives a better economy.
- * Low temperature of melting and application saves gas for heating.
- * High softening point eliminates the risk for melting at high ambient temperatures.

Description

BITMAS TL-82 DK is a bitumen based sealant, modified by elastomers and mineral filler.

It is supplied as a semi solid, which after heating until liquid is placed in the joint and on cooling forms a resilient elastomeric seal. For adhesion in concrete pavements is used a primer, *BITMAS Primer 8*, which is a one component primer, being resistant to alkalis. *BITMAS TL-82 DK* meets and exceeds the requirements of TLbitFug 82, ASTM SS-S 164, SS-S 1401 B and the Danish type A, hot applied, 25%.

Properties

Application temperature	: +150°-180°C
Specific gravity at 25°C	: ca. 1,13
Concrete/Asphalt temp.	: Min. +5°C. To be heated up to 40-50°C.
Movement Accomodation factor	: 25%
Flexibility at -20°C	: >180%
Softening Point (Wilhelmi)	: 95°C

Chemical resistance

Diluted mineral acids and alkalis, urea and deicing salt. The product is not resistant to fuel spillage.

Design Factors

Joints should be designed so that total movement do to pavement shrinkage and thermal change does not exceed the 25% Movement Accomodation Factor, which is expressed as a percentage of the minimum joint width.

Preparation

Joints and cracks must be clean, dry and free from dust, contamination and debris.

The joint profile must be sound, and at least 14 days old, prior to joint sealing.

Remove any dirt, surface laitence, contamination or residual joint former from all joints by one of the following methods:

1. Grinding
2. Sawing.
3. High pressure blasting with dry sand.
4. High pressure jet washer (>150 bar).

Remove any slurry from the pavement and the joints immediately after the sawing has taken place, by high pressure water.

Joints in asphalt pavements do not need any primer provided a jet blaster is used.

The heat from the ZACHO JET-BLASTER should be sufficient to produce a glossy surface, without any charred spots.

Prior to renovation of old bitumen joints, as much as possible from the existing sealant is going to be removed, by means of a plough and a rotating steel brush. In this way a reasonable profile is obtained, which gives a better durability than just putting on a new layer of sealant on top of the old one. As *BITMAS TL-82 DK* is based on bitumen any possible residuals from former bitumen based sealants will not attack the *BITMAS* product.

Priming

The prepared joints should be primed with *BITMAS Primer 8*, which is a one component primer to be sprayed or brush applied. Before using the primer, the can has to be shaken.

Leave the primer for at least 15 minutes before applying *BITMAS TL-82 DK*.

Joints and crack in asphalt pavements should not be primed, when using the JET-BLASTER.

Heating

The sealant should be charged into an approved, pre-heated, oil-jacketed kettle as ZACHO OBK 110 Boiler.

Fill the heater initially to half capacity, and start the agigator. Once the material has liquified, add remaining sealant required. The sealant must be heated to a minimum temperature of 150°C. The upper safe heating temperature is 180°C, and the maximum safe heating period is 6 hours. Do not exceed these limitations.

Application

For the application a pre-heated metal box should be used. The melted material is taken from the main heater, and is to be kept at a temperature of not less than +150°C during the application. The sealant must fill the joint to the upper edge of the pavement.

Storage

BITMAS TL-82 DK should not be stored in direct sunlight or above 40°C. Do not store under tarpaulin or plastic cover where excessive heat build up is possible.

Indoor store is preferable.

At least 12 months shelf life when stored below 40°C.

BITMAS Primer 8 is an inflammable liquid.

Packaging

BITMAS TL-82 DK is supplied in 10 kg packages, which will give a yield of approx. 9 liters.

BITMAS Primer 8 is supplied in 10 kg buckets.

A theoretical consumption of the *BITMAS Primer 8* will normally be 3-4% of the calculated amount of sealant.

Any advice, recommendation, specification or information are based on many years of experience, and are just given to ensure the best result for the user. As varied conditions at the user are outside of our control, we can take no responsibility for the attained results.