INNO-PROOF

FOX PURMAX® MASTIC EP-2K

Epoxy-Polyurethane Based, Two Component, High Mechanical Strength, Horizontal Applicable, Continuous Elastic, Joint Filling Mastic

Description

FOX PURMAX® MASTIC EP-2K is an Epoxy-Polyurethane based, two component, continuous elastic filler mug specially formulated for horizontal expansion joints and crack control joints with high mechanical strength.

Fields of Application

- In filling all crack control joints,
- Power Plants,
- Highways, bridges and viaducts,
- Gas Stations,
- Industrial floors exposed to pedestrian and heavy vehicle traffic,
- Stadiums,
- On terraces and balconies,
- Used to fill crack control joints of irrigation canals.

Advantages

- Easy application and single layer application (with drawers, comb trowel or airless gun),
- Provides excellent adhesion,
- Has excellent cold weather resistance,
- Elastic,
- High abrasion resistance,
- Crack Bridging ability,
- Hydrophobic (water repellent),
- Resistant to puddling and ponding,
- Has excellent thermal resistance, the product never softens again,
- Can be applied on asphalt,
- Liquid impermeable,
- Can be walked on (light traffic),
- Suitable for local repairs

Technical Features

Structure of the Material	Modified Epoxy-Polyurethane
Density	1,04 gr/cm^3
Colour	Grey
Tensile Strength DIN 53 504	> 3,14 N/mm²
Elongation at Break DIN 53 504	> % 310
Viscosity	8830 cp
Shore A	78
Solids by percentage	% 100
Dilution	No-dilution
Application Duration	40 minutes
Application Temperature	+5°C / +40°C
Service Temperature	-40°C / +90°C

The values above are given for +23°C and 50% relative humidity. While higher temperatures shorten the period, lower temperatures extend.

Application Procedure

Joint Filling Design

For joints **FOX PURMAX® MASTIC EP 2K** will be used, the width should be between 10 mm and 100 mm. At joints with a width of 10-50 mm; **FOX PURMAX® MASTIC EP 2K** application thickness should be about half of the joint width. (thickness/width = ~1/2). Width 50mm and above at joints; 2,5-3 cm **FOX PURMAX® MASTIC EP 2K** application thickness is only enough. Movements to occur in the dilatation joints should not exceed ± 35% of the joint width.

Preparation of the Substrate

Concrete Surfaces

Care should be taken to ensure that the inner and outer surfaces of the dilatation joints are dry, sound, dust free, clean, level and smooth surfaces. Any grease, paraffin and silicone residues that will weaken the adherence of the surface should be removed and there should be no loose particles on the surface. Defects on the surface should be repaired with **FOX EPOMORTAR FC 510**.

Steel Surfaces

All kinds of oil and rust which will weaken the adherence should be thoroughly cleaned and sand blasted. When sandblasting is not possible, it should be cleaned with the help of mechanical tools. An oil remover is used to clean the surface when it is greasy and oily.

Mixing

FOX PURMAX® MASTIC EP 2K is produced in ready-to-use sets according to mixing ratio. Before mixing, ensure that material temperatures are between + 15 ° C and + 25 ° C. All of the B component must be drained into the A component and the B component package must be free of any remaining material. **FOX PURMAX® MASTIC EP 2K** should be mixed with a 300 rpm electric stirrer fitted with a mastic stirrer head until a homogeneous mixture is obtained for at least 5 minutes, taking care not to mix the material too much not to drag any air into the mixture and without living any material around the edges and the bottom of the package.

Application

Primer Application

The outer edges of the joints where the surface preparation is completed should be protected by adhering the masking tape to the appropriate width. Polyethylene wick should then be used to prevent adhesion of the mast to the bottom surface of the joint and to make the mastic coating suitable for the joint design envisaged. Polyethylene wick 5 mm wider than the joint width is compressed and placed in the joint. The depth of insertion should be half of the joint width. Then the jointed concrete surfaces should be primed with **FOX PURMAX® PRIMER** series primer using a suitable brush. No primer should be applied on the polyethylene wicking surface. When the primer is cured to wet / dry consistency (the material should not stick to the finger when touching the primed surface but fingerprints must remain on the primed surface) then the application of the mastic can be started. The application of mastic must be carried out the next day, after the dilatation surfaces are primed with **FOX PURMAX® PRIMER** series primer. If this time has elapsed, the primer application should be repeated.

Mastic Application

FOX PURMAX® MASTIC EP2K is used only in vertical joints. The material ready for use as described above must be filled on the polyethylene wick and primed joint by means of a mouthful container or an aluminium filled cushion gun. In order to prevent the formation of air gaps, the filling of the groove must be started from below (from the surface of the wick) and continued until the desired surface is obtained. Following the completion of the mastic application, the masking strips must be removed from the surface without disturbing the shape of the joint.

Cleaning of the Tools

Tools and equipment should be cleaned first with paper towels, then with solvent. Do not try to clean used rollers and brushes, they cannot be used for second time.

Consumption

Theoretical joint lengths with 1 kg **FOX PURMAX® MASTIC EP 2K**;

Joint Depth	Joint Width				
	10 mm	**20 mm**	**30 mm**	**40 mm**	**50 mm**
5 mm	16 mt				
10 mm		4,65 mt			
15 mm			2,05 mt		
20 mm				1,15 mt	
25 mm					0,75 mt

Package

5 kg set
A Component; 4,37 kg tin bucket
B Component, 0,63 kg plastic bottle

Shelf Life

Shelf life is 12 months from the date of production when stored properly at + 5 ° C to + 30 ° C, room temperature away from direct sunlight. Opened packages should be used immediately.

Storage

The product should be stored in its original package, in a cool and dry place protected from frost. For short term storage, maximum 3 palettes should be placed on top of each other and the shipment should be made on a 'first come, first go' basis. Palettes should not be placed on top of each other during long term storage.

Health and Safety Precautions

It is dangerous to approach the application sites with fire. Fresh air should be circulated in the storage and the application sites. During the application, a protective apparel, protective gloves, goggles and masks which comply with the Occupational Health and Safety Rules should be used. Due to the irritation effect of the uncured materials, the mixture should not come into contact with skin and eyes; in case of a contact, the affected area should be washed with plenty of water and soap; in case of swallowing, a physician should be consulted immediately. No food or beverages should be brought to the application area. The product should be stored and kept out of reach of children.

For detailed information please consult the Material Safety Data Sheet**.**

Disclaimer

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