

Teknobituderz

Hot Applied Bitumen Based Joint Filler Mastic



ASTM D 6690 (ASTM D 3405)

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Product Description It is a hot applied crack repair, grouting and insulation material containing polymer and modified asphalt. It has high cold flexibility and return. It's ready to be applied. It allows heavy traffic conditions shortly after application. It is suitable for cracks, grooves, joints on asphalt fields and concrete-asphalt joints.

Areas of Usage

- On all kinds of asphalt surfaces, crack repair, joint filling, covering of cable channels, small floor
- Airports, runway-aprons and military areas.
- Due to its high elasticity and the ability to inhibit fungal growth, in all kinds of infrastructure without solvent.
- In joints between concrete and asphalt,
- In water structures such as dams, ponds exposed to water,
- Culverts and tunnels,
- Concrete retaining curtains
- On bridges and highways.

Features and Benefits

- Thanks to its high elasticity, it can be used easily between concrete and joints,
- Thanks to high return, in places under heavy loads (no change in product form)
- It does not leave the adhesive area after it has been applied between joints,
- It has high temperature stability.
- Bonding on cemented and different surfaces.
- It is economical.
- It can be applied by self-leveling, troweling or jointing machine when it reaches 190°C.

Application Instructions

Surface Quality: The surfaces should be clean, smooth, firm and dry, and weak parts should be removed from the surface. No application on moist surfaces.

Surface Preparation: Before application, joint should be thoroughly cleaned with wire brush, spiral or sandblasting, and dust should be removed from the joint by spraying air.

In order to provide the filling depth to be determined according to the joint width, a heat resistant material should be placed in the joint, preferably not adhering to the filling material. Linen or PP rope is suitable for this purpose. The diameter of the ropes should be 5-10% more than the width of the joint, the rope should be placed to the joint by pressing. Dried sand can be used where there is no frost hazard and where there is little joint movement. In these cases it is useful to place a paper tape on the base material to prevent sticking of the filler.

The molten material must be poured hot in the joint or crack. In full scale applications, the use of pumped systems equipped with heated steel hoses is recommended. It is recommended to apply TEKNOBITUDERZ to hot joints or cracks, especially in cold weather, to heat a surface with a LPG beaker or electric blower heater.

Application Notes / Restrictions

- Heating must be done with equipment with temperature controlled equipment, which is absolutely mixed with oil film.
- The material poured into the melting vessel must be heated homogeneously.
- The mixture is heated to 180°C and these temperatures are maintained during application.
- Mixing should be done at low speed and the air contact with hot material should be minimum.
- The oil temperature in the shirt should not exceed 200°C.
- Higher oil temperatures can cause damage to the product due to local overheating.
- The molten product must be poured hot in the grate or crack.
- To obtain good adhesion, it is advisable to heat with a burner in cold weather.
- If the ground slope is 2% deeper, it is recommended to place barrier bars vertically at regular intervals to prevent flow.
- It must be protected after application against adverse weather conditions such as direct sunlight, high air temperature (above +35°C), rain and frost.
- Immediately after application, before hardened, the equipment should be cleaned with TEKNOTHINNER.
- 10 mm is not recommended for narrow joints.
- It is not used on dirty, greasy and wet surfaces. Cleaning of such joints before application is important to ensure a good joint.
- Despite the high carrying resistance, studded tires, ice chains, sharp heels can damage the shoes.
- The ambient temperature during application should not be lower than 10°C and the dew point
- During the application, do not add foreign substances such as solvent etc. into TEKNOBITUDERZ.
- Do not work with flammable work clothes because of hot application. Use a mask, gloves, glasses, work safety rules.

Technical Data

General Information	
Chemical Structure	Special polymer modified bitumen mixture
Appearance	Black
Package	22,5 kg Bucket - 18 kg metal pail
Shelf Life	12 months in unopened package in dry environment
Density	1,17 ± (0,05) lt
Application Information	
Application Temperature	160°C - 170°C (must not exceed 200°C)
Pot Life	2 hours at 25°C
Opening Time for Traffic	1 day
Performance Information	
Hardness (ASTM D 2240)	A30 ± 10
Penetration (ASTM D 5329)	1,5 ± 0,5 mm
Asphalt Compatibility (ASTM D 5329)	Pass
Movement Flexibility	25%
Hot Yield (ASTM D 5329)	1,2 ± 0,5 mm

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity and valid for its performance after 27 days.