

EUXIT TB 50
ELASTIC COATING MATERIAL
FOR CONC., ASPHALT, IRON, STEEL & TIMBER

Description	A solvent free, two component preparation on tar-polyurethane base (Poly-mixture with isocyanate hardener).	
Fields of application	<p>EUXIT TB 50 is a very elastic coating material for concrete, asphalt, iron and steel timber, especially for coating roadways and floors such as, for example, steel surfaced roads, temporary roadways, mastic asphalt roads, industrial asphalt floors, wooden bridges and similar constructions.</p> <p>Especially suitable for re-conditioning and repair of asphalt roads and bridges.</p>	
Properties	<p>When properly hardened EUXIT TB 50 is a tough, highly elastic product, and is highly resistant to abrasion and is non-skid. It is resistant to diluted chemicals and saline solutions and also to aliphatic hydrocarbons, petrol, heating oil, brake-fluids and similar substances. EUXIT TB 50 can withstand constant temperatures in region of minus 30 to plus 100o C dry heat, and up to plus 60oC wet heat.</p>	
Technical data	<p>Viscosity 8 mm Din at 20oC (sec)</p> <p>Specific gravity at 20oC (g/m³)</p> <p>Mix ratio (by weight)</p> <p>Mix ratio (by volume)</p> <p>Pot life at 10oC (hours)</p> <p>Pot life at 20oC (hours)</p> <p>Pot life at 30oC (hours)</p> <p>Minimum hardening temperature (C) 3</p> <p>Bone dry at 20oC (hours)</p> <p>Walkable at 20oC (hours)</p> <p>Thorough hardened at 20C (aft.days) 4</p> <p>Water absorption aft. 21 days at 23oC</p> <p>a) Regul. test: 50x50x1 mm (weight %) 0,6</p> <p>b) Din. 53472 test: 50x50x4 mm (weight %) 0,15</p> <p>Weight loss aft. 28 days at 60°C</p> <p>a) test thickness: 0,3 mm (weight %) 7,5</p> <p>b) test thickness: 4 mm (weight %) 0,8</p> <p>Volume shrinkage (%) 4</p> <p>Linear shrinkage (%) 0,3</p> <p>Shore A hardness 70</p> <p>E-module approx. 50 kp/cm³</p> <p>max. joint movement (%) 3-5</p>	<p>60 - 80</p> <p>1,2</p> <p>5 : 1</p> <p>5 : 1</p> <p>1,5</p> <p>3/4</p> <p>1/4</p> <p>2</p> <p>24</p> <p>4</p> <p>0,6</p> <p>0,15</p> <p>7,5</p> <p>0,8</p> <p>4</p> <p>0,3</p> <p>70</p> <p>approx. 50 kp/cm³</p> <p>3-5</p>
Instructions for use	EUXIT TB 50 is supplied in correct mix ratios. The hardener (com.B) is poured into the base component A care must be	

taken to ensure that the hardener is completely emptied from its container.

Mixing of the two components is best effective by means of a mechanical stirrer at a max. of 300 r.p.m. (a slowly revolving boring machine fitted with a whirl). Mix thoroughly! Ensure that at the sides and on the base the hardener is uniformly distributed in all directions. The mixture must be stirred until it becomes homogenous. The temperature of both components should be 10-20 oC when mixing together. The material must not be applied directly from the original storage container: After mixing, the product should be poured into a shallower container and again carefully mixed.

EUXIT TB 50 can be applied by roller, brushed on, or applied by dented spatula, squeegee or wiper blade. To remove air bubbles, the surface should be gone over with a spiked roller.

Surface preparation

Cement bound surfaces must be dry, firm, offer good traction, be free from grout, dust and dirt, and. Additionally, be free of oil, grease and other impurities which can adversely affect uniform adhesion. If necessary, the surface should be sand blasted, flame scaled, milled or ground.

Iron and steel must be free of rust and scale and should be free from oil, dust, grease and other impurities which can adversely affect uniform adhesion.

Best surface-preparation is flame-scaling or sand-blasting.

Asphalt must be firm, dry, free of loose particles, free of dust, oil and grease.

In addition, 75% of the aggregate (granulation) should lay free on the top surface. If necessary, mill or blast.

1- Coating procedure for cement bound surfaces.

Surface coating compound, smooth or non-skid, for coating thickness of 2-4 mm .

1.1 Prepare surfaces as above .

1.2 Prime with **EUXIT TB 50**

Material consumption, depending on surface absorption, 200-400 g/m².

1.3 Immediately after applying the primer, sprinkle with fire dried quartz sand 0,2-0,7 mm micron.

Consumption of sprinkled granulation, approx. 1,5 kg/m².

1.4 After an interval of 1 day, apply the surface coating compound, which should comprise of :

1 part (volume) **EUXIT TB 50**

1,5 parts (volume) fire dried quartz and 0,2-0,7 mm

micron thoroughly mix the **EUXIT TB 50** (components A and B), then immediately stir in the sand .Pour the mixture and spread to required thickness with a dented spatula or squeegee, and then roll with a spiked roller to

eliminate air bubbles and level off.

Material consumption 600 g **EUXIT TB 50** 50/m² and mm thickness.

1.5 If a non-skid surface is required, immediately sprinkle with the fire dried quartz sand 0,7-1,2 mm micron.

Consumption of granulation approx. 4 kg/m².

2- Coating procedure for iron and steel.

2.1 Sand blast according to rost 2.213 (optimum peak to valley depth approx. 50) .

2.2 Prime with **EUXIT TB 50** .

Material consumption. approx. 300-500 g/m², depending on temperature.

2.3 If further work cannot be undertaken within 5 hours, then the fresh primer should be sprinkled with fire dried quartz sand 0,2-0,7 mm.

Consumption of sprinkled granulation 2 kg/m².

2.4 1-5 hours after applying the primer, or alternatively 24 hours after sprinkling with sand, apply the surface coating compound which should comprise of the following:-

1 part (volume) **EUXIT TB 50** .

1 part (volume) fire dried quartz sand 0,2-0,7 mm micron

1/2 part (volume) calcinated bauxite 1-3 mm.

This material should be applied to a thickness of approx. 4 mm.

Material consumption, approx. 2 kg **EUXIT TB 50** /m².

2.5 Immediately after applying the surface coating compound , sprinkle with calcinated bauxite 1 - 3 mm or 2 - 5 mm micron after sprinkling , it is worth while to roll in the bauxite with a light roll .

3- Coating procedure for asphalt.

3.1 Coating to improve the traction of asphalt roads .

3.1.1 Prepare surface as above.

3.2.2 Prime with **EUXIT TB 50** .

Material consumption approx. 400 g/m².

3.2.3 If further work cannot be undertaken within 5 hours, immediately sprinkle the freshly applied primer with fire dried quartz sand, granulation 0,2 -0,7 mm Consumption of sprinkled granule, 1,5-2 kg/m².

3.2.4 1-5 hours after applying the primer, or 24 hours after the sand has been sprinkled, apply the surface coating compound, which should comprise of the following:-

1 part (volume) **EUXIT TB 50** .

1 part (volume) fire dried quartz sand 0,2-0,7 mm micron and

1/2 part (volume) calcinated bauxite 1-3 mm or fire gravel 1-3 mm micron. This material should be applied to a coating thickness of app. 4-5 mm. Material consumption, approx. 2 kg **EUXIT TB 50** /m².

3.2.5 Immediately after applying the surface coating, sprinkle with calcinated bauxite 1-3 mm or 2-5 mm or alternatively fine gravel 1-3 mm or 2-5 mm micron.

3.2.5 Immediately after applying the surface coating compound, sprinkle with calcinated bauxite 1-3 mm or 2-5 mm micron.

After sprinkling, it is worth while to roll in the bauxite with a light roller. For track re-conditioning and coating over 1 cm it is worth while to apply the surface coating compound in two coatings, whereby the first surface coating compound should be made up of:-

1 part (volume) **EUXIT TB 50** .

1 part (volume) fire dried quartz sand 0,2-0,7 mm.

1-2 parts (volume) fine gravel 2-5 mm to be added.

The above described fine mortar should be applied on top of this coarse surface compound .

Cleaning and appliances

All tools and appliances should be thoroughly washed and cleaned with Tools **EUXIT TB 50** universal thinner immediately after use!

Physiological reactions and precautions in use

After proper hardening **EUXIT TB 50** physiologically harmless. As a tar containing product, however, it is not permitted to be used for component B (hardener) contains isocyanate and is caustic. Care must be taken so that the hardener does not come into contact with the skin, especially not with the eyes and mucous membranes. It is recommended that rubber gloves be worn whilst working. Skin contamination should be immediately cleaned with soap and plenty of water, better still with an addition of 2% household vinegar.

If splashed into the eyes. They should immediately be washed with plenty of water. By means of an eye bath with boric acid, (obtainable from chemists and pharmacies), rinse out, and then report immediately to an eye specialist. At all times local statutory safety regulations with regard to working with epoxy hardeners should be strictly observed.

Container sizes and col. shades

EUXIT TB 50 is supplied in containers of 5 kg and 12 kg. Resin and hardener are supplied in correct mix ratio

Color : Black.

Storage

Both components of **EUXIT TB 50** are separately packed have a storage life of at least 12 months. After longer periods of storage, reactivity can decrease. Store in a cool and dry place!

The foregoing information is based on our own research and practical experience and is intended to be guidance to the end user. The information is compiled from scientific findings. We recommend that a check be made to a certain that this product is suitable for use under existing local conditions, and if necessary, a test coating should be made. We cannot be held liable for consequences deriving from this technical specification.

Our general conditions of supply and terms of payment are applicable.