

# LEYCO®-POX 137

## TAR-PITCH EXTENDED EPOXY RESIN LINING FOR STEEL BRIDGE DECKS AND AS BONDING AGENT BETWEEN STEEL AND BITUMINOUS PAVEMENTS

### Product Description

LEYCO-POX 137 is a solvent free elasticized thixotropic pitch extended epoxy resin formulation, containing reinforcing inert fillers. It is supplied as an 2-Component system.

### Uses

Special designed corrosion protection for steel bridge decks and used as waterproofing between steel bridge structures and bituminous road pavement. Provides excellent protection for steel structures against corrosion from aggressive environments and from de-icing salt and provides perfect bond of bituminous pavement to steel surfaces.

### Standard

According to German regulation as defined in:

"Grundprüfung der Baustoffe und Bauweisen der Haftsichten nach dem Merkblatt für bituminöse Bodenbeläge auf Stahl" - "Test of Material and Methode of Construction of Adhesive Layers, acc. to the brochure dealing with pavements".

### Advantages

- Long term corrosion protection.
- Seamless application by spray or brush.
- Gives very good bond to steel and bituminous pavements.
- High film build in single application.
- Chemical and abrasion resistant.

### Technical Data

Mixing ratio:	A:B = 2:1 (by weight)
Viscosity at 23 °C	
a) Rotation Viscometer	mPas 3400
b) DIN beaker (8 mm)	50 sec.
Density at 23 °C:	1,33 g/cm <sup>3</sup>
Pot-life at 10 °C	1 hours
at 23 °C	0,5 hours
at 30 °C	0,25 hours

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## Product Data Sheet

Product No: 30.137

### Thoroughly hardened at 23°C:

After:	3 days
Minimum hardening temp:	12 °C
Tack free (23°) after	3 hours
Traversable (23°) after:	16 hours
Tensile strength (DIN 53455)	9 N/mm <sup>2</sup>
Shore A hardness:	99
Elongation at rupture:	ca.100% (DIN 53455)
Adhesive strength on steel:	>5 N/mm <sup>2</sup>

### Storage/Shelf life

The ideal condition is a cool and dry store. Not less than 10 °C.

## Application

### General information

LEYCO-POX 137 combines the excellent water proofing qualities of special tars with the outstanding thermal and chemical properties of epoxy resin. Both components give the cured coating a high degree of elasticity, toughness, hardness and abrasion resistance as well as an excellent resistance to chemicals, e.g. water and de-icing salt solutions, diluted acids and lyes and to aliphatic hydrocarbons such as petrol, oil, and diesel fuel. Moreover, the temperature resistance required for application of poured asphalt layers (+ 250 °C) is guaranteed. LEYCO-POX 137 provides an excellent interconnection of the entire bridge surface, and in combination with the primer an active and safe protection of the steel deck against corrosion and de-icing salts.

### Priming

#### Apply immediately after preparation

1. First coat using LEYCO-Pox 111 (beige) at a rate of 200 - 250 g/m<sup>2</sup>.
2. Second coat using LEYCO-Pox 111 (brownish-red) at a rate of 200 -250 g/m<sup>2</sup> after 20 hours at 23 °C or 48 hours at 12 °C and sprinkle immediately 150g/m<sup>2</sup> quartz sand 0,1 - 0,5mm into the non-cured coating.
3. Remove excess quartz sand from previous coat by vacuum-cleaner and apply Leyco-Pox 137 at a rate of 1,5 kg/m<sup>2</sup> (=1100 μm wet film thickness).
4. Sprinkle direct onto the non-cured LEYCO-Pox 137 bonding layer quartz sand 2 - 5 mm resp. 5 - 8 mm at a rate at 3 - 3,5 kg/m<sup>2</sup>.
5. After about 24 hours at 15 °C (or 48 hours at lower temperatures) apply an intermediate buffer layer of bituminous mastic asphalt by squeegee at a rate of 8 kg/m<sup>2</sup> on the quartz sand dressing, 5 - 8 mm and at the rate of 4,5 kg/m<sup>2</sup> on the quartz sand dressing 2 - 5 mm.
6. When previous layer of bituminous mastic asphalt has cooled down, start application of protective mastic asphalt or asphalt concrete.

### Cleaning

Tools and equipment should be cleaned with LEYCO-CLEANER+THINNER immediately after use.

## Safety Instructions

### Safety precautions

Gloves, barrier cream or protective clothing should be used. Prolonged skin contact may cause irritation. If accidentally splashed into eyes, flush with plenty of water and seek medical attention immediately.

### Legal notes

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