

**PRODUCT****TEP**  
**Tar Epoxy Polyurethane****DESCRIPTION**

TEP is a solvent-free tar epoxy polyurethane liquid resin combination.

**PRODUCT FEATURES**

- TEP combines the high waterproofing properties of special tars with the excellent wear resisting and chemical properties of epoxy resins.
- TEP provides an elastic, tough, resistant coating to areas with severe exposure conditions.
- Resistant to carbonation, chloride attack and a wide range of chemical compounds.

**USES**

- Elastic coating system for steel and concrete resistant to mechanical loads.
- Anti-slip and anti-skid coating when additivated with hard, coarse aggregates.
- Coating for ramps and heavily traffic flow surfaces, to provide anti-slip textures for steel and concrete bridges.

**SPECIFICATIONS**

- Form:	Two packs to be mixed immediately before using.
- Colour:	Black
- Mixing ratio:	1 part "A" to 1 part "B" by weight or volume.
- Density:	1,1 ± 0,05 Kg/dm <sup>3</sup>
- Viscosity	18000 mPas
- DIN beaker 8 mm.:	250-300 sec.
- Pot Life:	>2 hours
- Tack free time:	6 hours
- Overcoating time:	12-24 hours depending on ambient temperature
- Full cure:	7 days
- Adhesive strength on concrete:	>20 MPa
- Shore A hardness:	>75
- Tensile strength:	>4.0 MPa
- Elongation at break:	>100%
- Application temperature:	+10°C /+40°C
- Resistance to temperature (Dry conditions):	-30 to +80 °C
- Storage life:	18 months (minimum) if stored in the original, tightly sealed packs.
- Packing:	12 Kg. and 44 Kg. units.



## CHEMICAL RESISTANCE

TEP features a low water absorption and a good chemical resistance, it is resistant to water, waste and sea water as well as to diluted acids and aliphatic such as fuel, hydrocarbons oil and diesel.

## HOW TO USE

### SURFACE PREPARATION

The substrate should be mechanically prepared by grit blasting to achieve the correct substrate texture and primed with two coats of ZNP PRIMER.

### MIXING

Check uniformity of each component and stir parts "A" and "B" separately. Mix only the quantity of material that can be used before expiration of pot-life. For standard quantities, pour all of part "B" into can containing part "A". Mix thoroughly using a mechanical low speed mixer with a paint mixing paddle until material attains uniform consistency and colour. Carefully scrape the sides and bottom of the containers while mixing. Thorough mixing will take 3 to 5 minutes. For larger batches check uniformity of each component, stir parts "A" and "B" separately and thoroughly, measure the two components as specified on the packs into a clean container and proceed as above.

When TEP is used to prepare mortar always mix parts "A" and "B" before adding dry aggregates.

### APPLICATION

TEP mortar can be applied by rubber float and by toothed spatula. For de-aeration, if required, refinish with a spiked roller. TEP mortar should be applied on the relevant ZNP PRIMER.

## HANDLING AND TOXICITY

"A" and "B" Components for Industrial Use Only.

Skin contact should be avoided by wearing impervious gloves (rubber or disposable polyethylene) and by using suitable goggles for eyes; barrier creams such as Kerodex K7 may also assist in affording additional protection. Any accidentally contaminations skin areas should be cleansed immediately with soap and water and/or a suitable resin removal cream. For eyes, flush with plenty of water and get medical attention immediately.

The use of solvents for skin cleansing should be avoided.

All information and direction contained in this technical data sheet are given in good faith and are based on the best known practices.

SINIT, when having no control over transport, storage, handling, use and application of its product, will disclaim all responsibilities for any unsatisfactory results obtained.

All tests have been carried out at 23°C.

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These data supersede all previously published data.

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