



# MC-DUR 1500 TOF

## Solvent Free, Two-Component, Coal Tar Epoxy Combination

### Product Properties

- Solvent free, flexible two component coal tar and epoxy combination
- Highly Fillable due to absence of fillers
- Highly temperature resistant
- High Mechanical and Chemical Resistance

### Areas of Application

- As waterproof membrane in bridge decks
- Repair Mortar and leveling screed in car parks and carriageways
- Corrosion resistant protective coats for steel surfaces and for trafficable screeds on steel decks
- Abrasion resistant, oil and fuel resistant floor covering and surface screed for car parks, ramps, industrial floors and ware houses

### Application Notes

#### General

**MC-DUR 1500 TOF** is a two-component, solvent free coating developed from blending of suitably chosen special coal tar with a solvent free epoxy resin. These ingredients are pre-mixed with suitably chosen additives to give an optimum product for its end use characteristics.

**MC-DUR 1500 TOF** is formulated to withstand high temperatures.

**MC-DUR 1500 TOF** can be conveniently used as a binding material for production of plastic repair mortars as well as filled-in with suitable aggregates to obtain self-leveling screeds.

**MC-DUR 1500 TOF** exhibits an excellent resistance to temperature, microbial, chemical and environmental attacks. **MC-DUR 1500 TOF** is ideally suitable for bridge insulation, marine structures, purification and clarification plants, car parks, ramps and other civil engineering structures.

#### Instructions for Use

#### Substrate Preparation

The substrate must be clean and free from all loose particles, dust, cement, laitance, oil and other contaminants. The minimum concrete compressive strength necessary should be  $> 25 \text{ N/mm}^2$ . A substrate pull-off strength of  $\geq 1.5 \text{ N/mm}^2$  is required. **MC-DUR 1500 TOF** is not resistant to rising dampness. The substrate must not contain more than 6% moisture. Porous mineral based substrates must be primed with the transparent, solvent free epoxy primer. Steel should be sand-blasted at least according to specification 2.212 of ROST to remove the oxidized skin or according to Sa 2 1/2 of Svensk Standard SIS 05 59 00 – 1967.

#### Mixing

**MC-DUR 1500 TOF** is packed by weight in two packs, one containing resin and other hardener. Before application resin and hardener shall be mixed together in the proportion 1:1 p.b.w. using slowly rotating electrical drill paddles. In case of small quantities hand mixing can be resorted to. To complete the mixing the mixture is poured from one can to another and mixed again to ensure homogeneity. To ensure the correct mixing ratio and for ecological reason packs should be emptied thoroughly.

Higher temperatures considerably shorten the pot life. Packs should not be left in direct sunlight. Keep tins closed when not in use to prevent unnecessary evaporation. On return to work the material should be thoroughly re-mixed. Material should not be applied below temperature  $+5^\circ\text{C}$ .

**MC-DUR 1500 TOF** may not be used where the coal-tar component is prohibited for reasons of paint, smell or for physiological reasons.

#### Handling

**MC-DUR 1500 TOF** may be applied by means of a brush, nylon or lambskin roller or similar tools. For spray application, please use an airless spray gun. In that case the pressure and viscosity have to be adjusted to each other as well as possible to obtain a uniform spraying.

**MC-DUR 1500 TOF** must not be applied at temperatures below  $+6^\circ\text{C}$  and in case of humidity of more than 85% because that would disturb or prevent the setting process. The setting of the material applied is largely dependent on the temperature. Lower temperatures lengthen the drying time and higher temperatures will shorten it. If required a tropical grade of material is available.

## Further Instructions / Precautions

Application Example



Application Example



## Technical Data For MC-DUR 1500 TOF

Characteristic	Unit	Value	Comments
Minimum application temperature	°C	+5°C	Relative Humidity should be <85%
Density	Kg / Litre	≈ 1.14	Unfilled Mixed Material
Mixing ratio	Parts by weight	1:1	Resin: Hardener
Potlife	Minutes	≈ 30	
Resistant to Foot Traffic	Hours	≈ 12	
Resistance to full mechanical and chemical loading	Days	7	
Consumption	G / m <sup>2</sup>	≈ 250 to 300	For two coats

## Product Characteristics for MC-DUR 1500 TOF

<b>Type of Product</b>	Two Component, solvent free Coal tar Epoxy Combination
<b>Form</b>	Resin and Hardener
<b>Colour</b>	Black
<b>Shelf Life</b>	6 months from date of Manufacture
<b>Delivery</b>	Resin: 30 kg Pails and 5 kg cans, Hardener: 30 kg Pails and 5 kg cans
<b>Storage</b>	In Unopened Packaging. Protect from Rain, Direct Sunlight, Heat and Frost
<b>Disposal</b>	Empty packs completely and dispose off carefully to protect our Environment

**Note:** The information on this data sheet is based on our experiences and correct to the best of our knowledge. It is, however, not binding. It has to be adjusted to the individual structure, application purpose and especially to local conditions. Our data refers to the accepted engineering rules, which have to be observed during application. This provided we are liable for the correctness of this data within the scope of our terms and conditions of sale-delivery-and-service. Recommendations of our employees, which may differ from the data contained in our information sheets, are only binding if given in written form. The accepted engineering rules must be observed at all times. E. & O.E.

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