

## TE51

### TEMATAR TFA

The epoxy systems TE51 are recommended for steel, zinc and concrete surfaces exposed to abrasion, chemicals, high humidity and climate in indoors and outdoors applications, also for submerged and underground constructions.

Corrosivity categories/durability according to ISO 12944	Tikkurila Coatings code	Treatment
<b>Steel surfaces</b>		
<b>Corrosivity categories Im1, Im2, Im3</b> Inside of raw and fuel oil tanks. Sewage water tanks and basins. Ballast water tanks, interior of girders and other similar steelwork exposed to moisture or water.	<b>TE51</b> TEMATAR TFA	<b>EP250/2-FeSa2<sup>1/2</sup></b> DFT <u>2 x 125 µm</u> 250 µm
<b>S8.07</b> <b>Corrosivity categories/durability Im1-M, Im2-M, Im3-M</b> Underground and submerged steelwork and equipment in damp environment, e.g. inside of pontoons, ballast water tanks.	<b>TE51</b> TEMATAR TFA	<b>EP360/3-FeSa2<sup>1/2</sup></b> DFT <u>3 x 120 µm</u> 360 µm
<b>S8.08</b> <b>Corrosivity categories/durability Im1 H, Im2-H, Im3-H</b> Steel constructions in underground and underwater applications when a long maintenancefree period is wanted.	<b>TE51</b> TEMATAR TFA TEMATAR TFA	<b>EP500/4-FeSa2<sup>1/2</sup></b> 2 x 120 µm <u>2 x 130 µm</u> DFT 500 µm

TEMATAR TFA is an alternative to coal tar epoxy ( CTE ), ISO 12944-5, table 8.

Marking of paint systems: TE51-SFS EN ISO 12944-5/S8.07 (EP360/3-FeSa2<sup>1/2</sup>)

### Zinc surfaces (hot-dip galvanized)

<b>Corrosivity categories Im1, Im2, Im3</b> Zinc surfaces in underwater and underground applications.	<b>TE51</b> TEMATAR TFA	<b>EP250/2-ZnSaS</b> DFT <u>2 x 125 µm</u> 250 µm
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### COLOURS

Black.

### SUITABLE SHOP PRIMERS

TEMABLAST EV 110, epoxy shop primer.  
SD ZINC 1000 HA, zinc silicate

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<b>SURFACE PREPARATION</b>	<p>Remove firm contaminations in order to make the cleaning easier. Remove salts, grease and oil with a suitable detergent. Rinse the surfaces thoroughly with water. ( ISO 12944 )</p> <p><b>Steel surfaces:</b> Blast clean steel surfaces to preparation grade Sa2½. ( ISO 8501 - 1 )</p> <p><b>Zinc surfaces:</b> Sweep blast-clean with mineral abrasives, e.g. quartz sand, to grade SaS. (SFS 5873). Damages in the zinc coating have to be repaired with TEMAZINC 99, a zinc rich epoxy paint. Before painting, clean the surfaces thoroughly (Sa2½/St3) and level off the edges around the cleaned areas.</p>
<b>APPLICATION CONDITIONS</b>	<p>The surface must clean and dry and the surface temperature should remain at least 3 °C/ 5 °F above the dew point. During application and drying the temperature of the air, paint and surface should be a minimum of + 10 °C/50 °F. The relative humidity should not exceed 80 %.</p>
<b>APPLICATION</b>	<p>The paint should be mixed thoroughly before application and then applied in an even coat on the dry and clean surface. Application with airless or conventional spray, brush or roller. Stripe coating of sharp edges, welding seams etc. should be done by brush or roller.</p>
<b>MAINTENANCE PAINTING</b>	<p><b>Maintenance</b> Touch-up painting is sufficient for maintenance when the rust grade is Ri1 - Ri3. ( ISO 4628-3 ) Damages caused by transport or installation may also be repaired by touch-up painting. Remove all loose paint, clean rusty areas according to system demands. On steel surfaces small areas can be grinded or wire brushed to preparation grade St2 (SFS-ISO 8501-1). Level off the edges between the old paint film and the cleaned up areas. When using blast cleaning, be sure that there are no cracks in the remaining paint film. If the entire surface has to be overcoated, abrade the old topcoat to a rough finish. Remove all dust and other cleaning residues. Apply primers and finish according to the original paint system, qualities and film thicknesses.</p> <p><b>Repainting</b> When the rust grade is Ri4 or Ri5, the entire coating must be renewed. Remove the old paint film and clean the surfaces to preparation grade Sa 2½. Recoat in accordance with the original paint system.</p>
<b>PRODUCT INFORMATION</b>	<p>More detailed product information is available in respective data sheets.</p>

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