

## TE4

### Temaline NL

The epoxy systems TE4 are suitable for coating of submerged steel and concrete surfaces exposed to chemicals and severe mechanical abrasion. Resistance to chemicals in a separate table. Can be applied by standard airless spray equipment.

Corrosivity categories/durability according to ISO 12944	Tikkurila code	Treatment
<b>Steel surfaces</b>		
<b>Corrosivity categories C5-I-H, C5-M-H, Im1, Im2, Im3</b> Steel surfaces exposed to chemicals and severe mechanical abrasion in immersion. E.g. navigation markers, structures of quays, sluices and peat containers. According to SFS 5873, system F22.01	<b>TE4</b> TEMALINE NL	<b>EP500/2-FeSa2½</b> DFT <u>2 x 250 µm</u> 500 µm
<b>Marking of paint systems: TE4-SFS 5873/F22.01 EP500/2-FeSa2½</b>		

### Concrete surfaces

<b>Corrosivity categories Im1, Im2, Im3</b> Concrete basins, floors and walls.	<b>TE4</b> TEMALINE NL	<b>EP500/2</b> DFT <u>2 x 250 µm</u> 500 µm
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### COLOURS

White TVT 0201, black TVT 0202, green TVT 0225, yellow TVT 265, red TVT 0284 and Finnish maritime administrations (FMA) shades 20 red, 38 grey, 47 green and 48 yellow.

### SUITABLE SHOP PRIMERS

The surfaces should be blast cleaned so that only traces of used shop primer are left, the surface should be evenly grey, Sa2½. The surface profile should be rough. (SFS-ISO 8503-2)

**SURFACE PREPARATION**

Oil, grease, salts and dirt are removed by appropriate means. (ISO 12944-4)

**Steel surfaces:**

Blast clean to grade Sa2½. (ISO 8501-1)

**New concrete**

Remove laitance by power grinding, vacuum grit blasting or hydrochloric acid etching. Choose the method best suited for the premises. After grinding remove dust with a vacuum cleaner. Hydrochloric acid etching is carried out with diluted hydrochloric acid (1 part concentrated hydrochloric acid, 4 parts water). Rinse with plenty of water. Dry the surface.

**Old concrete**

Remove all dust and loose particles. Remove all grease, oil, chemicals and other impurities by detergent washing or flame cleaning. Remove old peeling paint layer by grinding, milling or vacuum grit blasting. Clean out pot-holes removing all loose friable material. Open cracks with e.g. an abrasive tool. Remove loose material and dust.

**APPLICATION CONDITIONS**

The surface must be clean and dry and the surface temperature should remain at least 3 °C above the dew point. During application and drying the temperature of the air, paint and surface should be a minimum of + 10 °C. The relative humidity should not exceed 80 %.

**APPLICATION**

The paint should be mixed thoroughly before application and then applied in an even coat on the dry and clean surface. Application with a high effective airless spray equipment. Stripe coating of sharp edges, welding seams etc. should be done by brush or roller.

**MAINTENANCE PAINTING****Maintenance**

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 St3. (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.

**Repainting**

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 Sa2½. Recoat in accordance with the original paint system.

**PRODUCT INFORMATION**

More detailed product information is available in respective data sheets.

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