

TE3
TEMALINE FW

The epoxy systems TE3 are suitable for coating of submerged steel and concrete surfaces and walls etc. in the foodstuff industry. When TEMALINE FW is completely cured the paint film is odourless and tasteless, free from any hazardous agents. Resistance to chemicals is specified separately in each particular case. The systems withstand + 150 °C/300 °CF dry heat and + 60 °C/140 °F wet heat in immersion.

Corrosivity categories according to ISO 12944
Tikkurila Coatings code
Treatment
Steel surfaces
Corrosivity categories C4, C5-I, Im1, Im2

Steel surfaces exposed to mild chemicals or severe mechanical abrasion, e.g. interior of grain and flour silos, fresh water tanks and pipes. Frameworks, platforms and other constructions which get in contact with the products or raw-materials.

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EP300/1-FeSa2½

 DFT $\frac{1 \times 300 \mu\text{m}}{300 \mu\text{m}}$
Corrosivity categories C4, C5-I, Im1, Im2

Submerged steel surfaces in the foodstuff industry, such as silos, containers and transport wagons.

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EP500/2-FeSa2½

 DFT $\frac{2 \times 250 \mu\text{m}}{500 \mu\text{m}}$
Marking of paint systems: TE3-EP300/1-FeSa2½
Concrete surfaces
Corrosivity categories C4, C5-I, Im1, Im2

Concrete basins, floors and walls in the foodstuff industry.

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EP500/2

 DFT $\frac{2 \times 250 \mu\text{m}}{500 \mu\text{m}}$
COLOURS

White.

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

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)

Steel surfaces:

Blast clean steel surfaces to preparation 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 floor.

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 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 %.

APPLICATION

The paint should be mixed thoroughly before application and then applied in an even coat on the dry and clean surface. Application with two component spray equipment or a high effective one component airless spray gun. 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 Sa 2½. Recoat in accordance with the original paint system.

PRODUCT INFORMATION

More detailed product information is available in respective data sheets.