

TE50
TEMACOAT RM 40

The epoxy systems TE50 are recommended for steel, stainless steel, aluminium and zinc surfaces exposed to abrasion, chemicals, high humidity and climate in indoor and outdoor applications, also for submerged and underground constructions. TEMACOAT RM 40 is available in many colours, also light ones, which makes it easier to follow up the condition of the coating.

Corrosivity categories/durability according to ISO 12944	Tikkurila Coatings code	Treatment
Steel surfaces		
S1.34, S3.19, S4.13 Corrosivity categories/durability C3-H, C4-M Steelwork exposed to severe climatic conditions, where the humidity is high.	TE50 TEMACOAT RM 40	EP240/3-FeSa2½ DFT <u>3 x 80 µm</u> 240 µm
S1.37, S4.14 Corrosivity categories/durability C4-H Steelwork and equipment in damp environment, e.g. inside of pontoons, ballast water tanks.	TE50 TEMACOAT RM 40 TEMACOAT RM 40	EP280/3-FeSa2½ 80 µm <u>2 x 100 µm</u> DFT 280 µm
S8.04 Corrosivity categories/durability Im1, Im2, Im3 Steel constructions in underground and underwater applications and surfaces exposed to extensive splashing.	TE50 TEMACOAT RM 40 TEMACOAT RM 40	EP380/3-FeSa2½ 80 µm <u>2 x 150 µm</u> DFT 380 µm
Marking of paint systems: TE50-SFS EN ISO 12944-5/S4.14 (EP280/3-FeSa2½)		

Aluminium surfaces

Corrosivity categories C2, C3, C4, Im1, Im2, Im3 Aluminium surfaces exposed water and splashing. E.g. bottoms of aluminium vessels.	TE50 TEMACOAT RM 40	EP250/2-AISaS DFT <u>2 x 125 µm</u> 250 µm
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Zinc surfaces (hot-dip galvanized)

S9.09 Corrosivity categories/durability C2-H, C3-M Zinc surfaces, indoors and outdoors, exposed to mild stress.	TE50 TEMACOAT RM 40	EP160/2-ZnSaS DFT 80 µm 80 µm
S9.11 Corrosivity categories/durability C4-H, C5-I-L, C5-M-M Zinc surfaces, indoors exposed to mechanical abrasion and outdoors in modest climate.	TE50 TEMACOAT RM 40	EP160/2-ZnSaS DFT <u>2 x 80 µm</u> 160 µm
Corrosivity categories C2, C3, C4, Im1, Im2, Im3 Zinc surfaces in underwater and underground applications.	TE50 TEMACOAT RM 40	EP250/2-ZnSaS DFT <u>2 x 125 µm</u> 250 µm

COLOURS

The product is tintable with TEMASPEED colorants, thus ensuring the possibility to get shades from RAL-, BS-, NCS- and other colour cards.

SUITABLE SHOP PRIMERS

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

SURFACE PREPARATION	<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>Steel surfaces: Blast clean steel surfaces to preparation grade Sa2½. (ISO 8501 - 1)</p> <p>Zinc surfaces: 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> <p>Aluminium surfaces: Sweep blast-clean with none-metallic abrasives to grade SaS. (SFS 5873).</p>
APPLICATION CONDITIONS	<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>
APPLICATION	<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>
MAINTENANCE PAINTING	<p>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 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>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.</p>
PRODUCT INFORMATION	<p>More detailed product information is available in respective data sheets.</p>

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