

TE109
**TEMACOAT RM 40
TEMACOAT GPL**

The epoxy systems TE109 are recommended for steel, aluminium and zinc surfaces exposed to abrasion, chemicals and other special stress. Resistance to chemicals in a separate table. The systems are suitable for application both in the field and in painting shops.

Corrosivity categories/durability according to ISO 12944	Tikkurila code	Treatment
Steel surfaces		
C2.06, C3.06, C4.05, C5.01 (12944-5:2019) Corrosivity categories/durability C2-VH, C3-H, C4-M, C5-L Steel constructions exposed to mild condensation in cold indoor spaces and outdoors in clean rural environment.	TE109 TEMACOAT RM 40 TEMACOAT GPL	EP180/2-FeSa2½ 100 µm <u>80 µm</u> DFT 180 µm
C3.07, C4.06, C5.02 (12944-5:2019) Corrosivity categories/durability C3-VH, C4-H, C5-M Steel structures in damp environment.	TE109 TEMACOAT RM 40 TEMACOAT GPL	EP240/2-FeSa2½ 140 µm <u>100 µm</u> DFT 240 µm
C4.07, C5.03 (12944-5:2019) Corrosivity categories/durability C4-VH, C5-H Steel structures in damp environment.	TE109 TEMACOAT RM 40 TEMACOAT RM 40 TEMACOAT GPL	EP300/3-FeSa2½ 100 µm 100 µm <u>100 µm</u> DFT 300 µm
C5.04 (12944-5:2019) Corrosivity categories/durability C5-VH Steel structures in damp environment.	TE109 TEMACOAT RM 40 TEMACOAT RM 40 TEMACOAT GPL	EP360/3-FeSa2½ 120 µm 120 µm <u>120 µm</u> DFT 360 µm
I.03 (12944-5:2019) Corrosivity categories/durability Im1-H, Im2-H, Im3-H Steel structures in immersion.	TE109 TEMACOAT RM 40 TEMACOAT RM 40 TEMACOAT RM 40 TEMACOAT GPL	EP360/4-FeSa2½ 80 µm 100 µm 100 µm <u>100 µm</u> DFT 380 µm

Marking of paint systems: TE109 - EN ISO 12944-5/C3.06 (EP180/2-FeSa2½)

Zinc surfaces**G3.04, G4.04, G5.02b (12944-5:2019)****Corrosivity categories/durability C3-VH, C4-H, C5-M**

Zinc surfaces outdoors in coastal and industrial areas in aggressive environment.

TE109	EP160/2-ZnSaS	
TEMACOAT RM 40		80 µm
TEMACOAT GPL		<u>80 µm</u>
DFT		160 µm

G4.06, G5.04 (12944-5:2019)**Corrosivity categories/durability C4-VH, C5-H**

Zinc surfaces outdoors in coastal and industrial areas in aggressive environment.

TE109	EP200/2-ZnSaS	
TEMACOAT RM 40		100 µm
TEMACOAT GPL		<u>100 µm</u>
	DFT	200 µm

SaS = Sweep blasting according to EN ISO 12944-4

COLOURS

TEMACOAT GPL is tintable with TEMASPEED Premium 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

SURFACE PREPARATION

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

Steel surfaces:

Blast clean to grade Sa2½. (EN ISO 8501-1) If blast cleaning is not possible, phosphating is recommended for cold rolled steel to improve adhesion.

Zinc surfaces:

Sweep blast-clean with mineral abrasives, e.g. quartz sand, to an even roughness. (SaS, SFS 5873) If sweep blasting is not possible, the surface should be roughened by hand abrading or washed with PANSSARIPESU detergent.

Hot dip galvanized surfaces are recommended to be painted with a misty coat (paint thinned 25–30%) before the actual priming.

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.

APPLICATION CONDITIONS

The surface must be clean, dry and the surface temperature should remain at least 3°C above the dew point. During application and drying the temperature of the air 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 airless or conventional spray, brush or roller. 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. (EN 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.

(EN 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 must 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.

HNO230616

The above information is not intended to be exhaustive or complete. The information is based on laboratory tests and practical experience, and it is given to the best of our knowledge. The quality of the product is ensured by our operational system, based on the requirements of ISO 9001 and ISO 14101. As manufacturer we cannot control the conditions under which the product is being used or the many factors that have an effect on the use and application of the product. We disclaim liability for any damages caused by using the product against our instructions or for inappropriate purposes. We reserve the right to change the given information unilaterally without notice.

The product is intended for professional use only and shall only be used by professionals who have sufficient knowledge and expertise on the proper use of the product. The information above is advisory only. To the extent permitted by applicable law, we shall not approve of any liability for the conditions under which the product is being used or for the use or application of the product.

In case you intend to use the product for any other purpose than that recommended in this document without first getting our written confirmation on the suitability for the intended use, such use takes place at your own risk.