TE79

TEMACOAT PRIMER
TEMACOAT GPL

The epoxy systems TE79 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		
C2.05, C3.05, C4.04 (12944-5:2019)		
Corrosivity categories/durability C2-H, C3-M, C4-L	**TE79**	**EP120/2-FeSa2½**
Steel constructions exposed to mild condensation in cold indoor spaces and outdoors in clean rural environment.	TEMACOAT PRIMER	80 µm
	TEMACOAT GPL	40 µm
	DFT	120 µm
C2.06, C3.06, C4.05, C5.01 (12944-5:2019)		
Corrosivity categories/durability C2-VH, C3-H, C4-M, C5-L	**TE79**	**EP180/2-FeSa2½**
Steel constructions exposed to mild condensation in cold indoor spaces and outdoors in clean rural environment.	TEMACOAT PRIMER	100 µm
	TEMACOAT GPL	80 µm
	DFT	180 µm
C3.07, C4.06, C5.02 (12944-5:2019)		
Corrosivity categories/durability C3-VH, C4-H, C5-M	**TE79**	**EP240/2-FeSa2½**
Steel structures in damp environment.	TEMACOAT PRIMER	160 µm
	TEMACOAT GPL	80 µm
	DFT	240 µm
C4.07, C5.03 (12944-5:2019)		
Corrosivity categories/durability C4-VH, C5-H	**TE79**	**EP300/3-FeSa2½**
Steel structures in damp environment.	TEMACOAT PRIMER	120 µm
	TEMACOAT PRIMER	120 µm
	TEMACOAT GPL	60 µm
	DFT	300 µm
C5.04 (12944-5:2019)		
Corrosivity categories/durability C5-VH	**TE79**	**EP360/3-FeSa2½**
Steel structures in damp environment.	TEMACOAT PRIMER	150 µm
	TEMACOAT PRIMER	150 µm
	TEMACOAT GPL	60 µm
	DFT	360 µm

Marking of paint systems: TE79-EP180/2-FeSa2½

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Aluminium surfaces

Corrosivity categories C3, C4	**TE79**	**EP120/2-AlSaS**	
Aluminium surfaces indoors in urban, maritime and industrial environment with high demands on aesthetics and resistance. According to SFS 5873, system F40.05.	TEMACOAT PRIMER		80 µm
	TEMACOAT GPL		40 µm
		DFT	120 µm
Corrosivity categories C5	**TE79**	**EP200/3-AlSaS**	
Aluminium surfaces indoors in severe maritime and industrial environment with high demands on aesthetics and resistance. According to SFS 5873, system F40.07.	TEMACOAT PRIMER		2 x 80 µm
	TEMACOAT GPL		40 µm
		DFT	200 µm

Zinc surfaces

G2.03, G3.02, G4.02, G5.01 (12944-5:2019)			
Corrosivity categories/durability C2-VH, C3-H, C4-M, C5-L	**TE79**		**EP120/2-ZnSaS**
Zinc surfaces indoors exposed to mechanical abrasion and outdoors exposed to moderate climatic conditions.	TEMACOAT PRIMER		80 µm
	TEMACOAT GPL		40 µm
		DFT	120 µm
G3.04, G4.04, G5.02b (12944-5:2019)			
Corrosivity categories/durability C3-VH, C4-H, C5-M	**TE79**		**EP160/2-ZnSaS**
Zinc surfaces outdoors in coastal and industrial areas in aggressive environment.	TEMACOAT PRIMER		80 µm
	TEMACOAT GPL		80 µm
		DFT	160 µm

SaS = Sweep blasting according to EN ISO 12944-4

COLOURS	Temacoat GPL 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

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.

Aluminium surfaces:
Sweep blast-clean with none-metallic abrasives to an even roughness. (SaS, SFS 5873) If sweep blasting is not possible, the surface should be roughened by hand abrading or washed with MAALIPESU detergent.

APPLICATION CONDITIONS

The surface must be clean and dry and the surface temperature should remain at least 3ºC above the dew point. During application and drying the temperature of the air, paint and surface should be a minimum of +10ºC. 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 July 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 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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