TP144

Temacoat Primer
Temadur 10

The polyurethane systems TP144 are suitable for steel, stainless steel and zinc surfaces exposed to severe climatic conditions. Temadur 10 polyurethane paint forms an easy to clean finish with good gloss and colour retention properties. 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)	**TP144**		**EPPUR120/2-FeSa2½**
Corrosivity categories/durability C2-H, C3-M, C4-L	Temacoat Primer		80 µm
Steel surfaces indoors and outdoors in clean rural environment with	Temadur 10		<u>40 µm</u>
high demands on aesthetics and resistance.		DFT	120 µm
C3.06, C4.05, C5.01 (12944-5:2019)	**TP144**		**EPPUR180/2-FeSa2½**
Corrosivity categories/durability C3-H, C4-M, C5-L	Temacoat Primer		120 µm
Steel surfaces outdoors in urban and industrial environment with high	Temadur 10		<u>60 µm</u>
demands on aesthetics and resistance.		DFT	180 µm
C3.07, C4.06, C5.02 (12944-5:2019)	**TP144**		**EPPUR240/3-FeSa2½**
Corrosivity categories/durability C3-VH, C4-H, C5-M	Temacoat Primer		2 x 100 µm
Steel surfaces outdoors in urban, maritime and industrial environment	Temadur 10		<u>40 µm</u>
with high demands on aesthetics and resistance.		DFT	240 µm

Marking of paint systems: TP144 EN ISO 12944-5/C4.06 (EPPUR240/3-FeSa2½)

Zinc surfaces

G2.03, G3.02, G4.02, G5.01 (12944-5:2019)		
Corrosivity categories/durability C2-VH C3-H, C4-M, C5-L	**TP144**	**EPPUR120/2-ZnSaS**
Zinc surfaces outdoors in urban, maritime and industrial environment	Temacoat Primer	80 µm
with high demands on aesthetics and resistance.	Temadur 10	<u>40 µm</u>
	DFT	120 µm

G3.04, G4.04, G5.02b (12944-5:2019)		
Corrosivity categories/durability C3-VH, C4-H, C5-M	**TP144**	**EPPUR160/2-ZnSaS**
Zinc surfaces outdoors in urban, maritime and industrial environment	Temacoat Primer	80 µm
with high demands on aesthetics and resistance.	Temadur 10	<u>80 µm</u>
	DFT	160 µm

G5.05 (12944-5:2019)		
Corrosivity categories/durability C5-VH	**TP144**	**EPPUR240/3-ZnSaS**
Zinc surfaces outdoors in urban, maritime and industrial environment	Temacoat Primer	2 x 80 µm
with high demands on aesthetics and resistance.	Temadur 10	<u>80 µm</u>
	DFT	240 µm

SaS = Sweep blasting according to EN ISO 12944-4

COLOURS	The product 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. Sweep blasting according to EN ISO 12544-4.

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 must 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.

Stainless steel:
Roughen the surface by grinding or sweep blasting using mineral abrasives.

APPLICATION CONDITIONS

The surface must be clean, 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 +5ºC. 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 enough 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 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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