

TP54

TEMACOAT GPL-S PRIMER TEMATHANE 50

The polyurethane systems TP54 are suitable for steel, aluminium and zinc surfaces exposed to severe climatic conditions. TEMATHANE 50 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 Coatings code

Treatment

Steel surfaces

S1.27, S2.16, S3.16

Corrosivity categories/durability C2-H, C3-L

Steel surfaces indoor and outdoor in clean rural environment with high demands on appearance and resistance.

TP54

EPPUR120/2-FeSa2½

TEMACOAT GPL-S PRIMER

60 µm

TEMATHANE 50

60 µm

DFT

120 µm

S1.28, S2.16, S3.17

Corrosivity categories/durability C2-H, C3-M

Steel surfaces outdoors in urban and industrial environment with high demands on appearance and resistance.

According to SFS 5873, system S3.17

TP54

EPPUR160/2-FeSa2½

TEMACOAT GPL-S PRIMER

80 µm

TEMATHANE 50

80 µm

DFT

160 µm

S1.31, S3.18, S4.12, S5.08, S7.02

Corrosivity categories/durability C3-H, C4-L, C5-M-L

Steel surfaces outdoors in urban, maritime and industrial environment with high demands on appearance and resistance.

TP54

EPPUR200/3-FeSa2½

TEMACOAT GPL-S PRIMER

80 µm

TEMACOAT GPL-S PRIMER

60 µm

TEMATHANE 50

60 µm

DFT

200 µm

Marking of paint systems: TP54-SFS EN ISO 12944-5/S3.17 (EPPUR160/2-FeSa2½)

Aluminium surfaces

Corrosivity categories C2, C3, C4

Aluminium surfaces outdoors in urban, maritime and industrial environment with high demands on appearance and resistance.

According to SFS 5873, system F40.04

TP54

EPPUR120/2-AISaS

TEMACOAT GPL-S PRIMER

80 µm

TEMATHANE 50

40 µm

DFT

120 µm

Zinc surfaces (hot-dip galvanized)

S9.10

Corrosivity categories/durability C3-H, C4-M, C5-L

Zinc surfaces outdoors in urban, maritime and industrial environment with high demands on appearance and resistance.

TP54

EPPUR120/2-ZnSaS

TEMACOAT GPL-S PRIMER

40 µm

TEMATHANE 50

80 µm

DFT

120 µm

S9.11

Corrosivity categories/durability C4-H, C5-M-M, C5-I-L

Zinc surfaces outdoors in urban, maritime and industrial environment with high demands on appearance and resistance.

TP54

EPPUR160/2-ZnSaS

TEMACOAT GPL-S PRIMER

80 µm

TEMATHANE 50

80 µm

DFT

160 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

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 Sa 2½. (ISO 8501 - 1)

Zinc surfaces:

Sweep blast-clean with mineral abrasives, e.g. quartz sand, to grade SaS. (SFS 5873). If blast cleaning isn't possible, the surfaces should be roughened by grinding or washed with PANSSARIPESU detergent. In these cases the adhesion of the paint to the substrate should be confirmed.

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 grade SaS. (SFS 5873). If blast cleaning isn't possible, the surfaces should be roughened by grinding or washed with MAALIPESU detergent. In these cases the adhesion of the paint to the substrate should be confirmed.

APPLICATION CONDITIONS

The surface must be 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 + 5 °C/41 °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 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. (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.

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.