

Suitable corrosivity categories/durability ranges

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Paint system ISO 12944-5	Low	Medium	High	Very high
G2.03	Zn	Zn	Zn	Zn
G3.02	Zn	Zn	Zn	
G4.02	Zn	Zn		
G5.01	Zn			

TEG2.03 Very high
TEG3.02 High
TEG4.02 Medium
TEG5.01 Low

TEKNOPLAST PRIMER 5, HOT DIP GALVANIZED Paint systems 120 µm

1 1.8.2018

TEKNOPLAST PRIMER 5 paint systems for hot dip galvanized steel consist of different types of paint chemistries. These paint systems are designed for hot dip galvanized steel. Epoxy paints have from their nature good mechanical and corrosion protection properties. Polyurethane paints have good gloss and colour retention properties outdoors.

Where excellent gloss and colour retention is expected of the surface finish, it is recommended to add 40 µm dry film of TEKNODUR 0250, 0290 or 295-900 clear coat as a top layer on top of the polyurethane (PUR) paint system described below. Please consult TEKNOS representative for choosing the most suitable product.

These paint systems are designed for corrosivity categories C2 – C5 with durability classes very high - low.

Paint		EP- top coat	PUR- top coat	
		S1	S2	S3
TEKNOPLAST PRIMER 5	EP	1x80 µm	1x80 µm	1x80 µm
TEKNOPLAST 50 / 90	EP	1x40 µm		
TEKNODUR 0050 / 0090	PUR		1x40 µm	
TEKNODUR 3410-series	PUR			1x40 µm
Total film thickness		120 µm	120 µm	120 µm
Paint system VOC, g/m ²		98	97 / 103	87 - 91

Example of Teknos paint system code	Example of paint system structure
TEG2.03/VH/S1	ISO 12944-5/G2.03-EP (EP120/2-ZnSaS).
TEG3.02/H/S2	ISO 12944-5/G3.02-EP/PUR (EPPUR120/2-ZnSaS)
TEG4.02/M/S3	ISO 12944-5/G4.02-EP/PUR (EPPUR120/2-ZnSaS)

These Teknos painting systems have been designed in accordance with ISO 12944:2017-2018 standards. In order to reach the durability ranges in specified corrosivity categories, care must be taken to ensure full compliance of steel construction design, steel prework and surface preparation quality with ISO 12944 standards.

Surface preparation Remove from the surfaces any contaminants that might be detrimental to surface preparation and painting. Remove also water-soluble salts by using appropriate methods.

Zinc surfaces: Hot dip galvanized steel structures that are exposed to atmospheric corrosion can be painted if the surfaces are sweep blast-cleaned (SaS) till matt all over. Suitable cleaning agents are, e.g. aluminium oxide and natural sand. It is not recommended according to standard ISO 12944-5 to paint hot dip galvanized objects that are subjected to immersion strain.

For more detailed information about of the above-mentioned products please see individual product data sheets.