

Table showing corrosivity categories/durability ranges according to ISO 12944-5

X Usage for the systems in the sheet

□ Not recommended

Version number and date of the sheet

Coats of the system with nominal dry film thicknesses

Example of Teknos system coding

Teknos system number and the durability

Letter indicating category of paint system:

C = Carbon steel
Im = Immersion
G = Hot dip galvanized
TSM = Thermal sprayed metal
CX = Offshore
CXG = Offshore, Hot dip galvanized
CX + Im4 = Splash and tidal zones
Im4 = Immersion in offshore

System name and total dry film thickness

Teknos system code

Example of system designation according to ISO 12944 and the structure of the system

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Suitable corrosivity categories/durability ranges

Paint system ISO 12944-5	Low	Medium	High	Very high
C2.05	X	X	X	
C3.05	X	X		
C4.04	X			

TEC2.05 High
TEC3.05 Medium
TEC4.04 Low

C

TEKNOPLAST PRIMER 3 / 5
Paint systems 120 µm

1 1.8.2018

TEKNOPLAST PRIMER 3 / 5 paint systems consist of an epoxy primer with good adhesion to the substrate and high corrosion protection properties. TEKNOPOX PRIMER 4 can also be used as a primer in these paint systems instead of TEKNOPLAST PRIMER 3 or 5.

As a top coat different kind of paint chemistries can be used. Epoxy top coats have good mechanical properties as their nature and polyurethane top coats are used when a good colour and gloss retention are required. These paint systems contain also a high-solid polyurethane top coat as option.

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 systems described below. Please consult TEKNOS representative for choosing the most suitable product.

These paint systems are designed for corrosivity categories C2 – C4 with durability classes high - low.

Paint		EP-top coat		PUR-top coat		
		B1	B2	B3	B4	B5
TEKNOPLAST PRIMER 3 / 5	EP	1x80 µm	1x80 µm	1x60 µm	1x60 µm	1x60 µm
TEKNOPLAST 50 / 90	EP	1x40 µm				
TEKNODUR 0050 / 0090	PUR		1x40 µm			
TEKNODUR 3410-series	PUR			1x60 µm		
TEKNODUR COMBI 3430-series	PUR				1x60 µm	
TEKNODUR COMBI 340-811	PUR					1x60 µm
Total film thickness		120 µm	120 µm	120 µm	120 µm	120 µm
Paint system VOC, g/m ²		98	97 / 103	81 - 88	84 - 95	73

Example of Teknos paint system code	Example of paint system structure
TEC2.05/H/B1	ISO 12944-5/C2.05-EP (EP120/2-FeSa 2½).
TEC3.05/M/B4	ISO 12944-5/C3.05-EP/PUR (EPPUR120/2-FeSa 2½).
TEC4.04/L/B5	ISO 12944-5/C4.04-EP/PUR (EPPUR120/2-FeSa 2½).

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.

Steel surfaces: Remove mill scale and rust by blast cleaning to preparation grade Sa 2½ (standard ISO 8501-1).

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

Technical data of the products included in the system can be found from the technical data sheets.