

Suitable corrosivity categories/durability ranges

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Teknos paint system code	Low	Medium	High	Very high
P243a-C3/M	X	X		
P243b-C4/M	X	X		
P243c-C4/H	X	X	X	
P243d-C4/H	X	X	X	
P243e-C5/H	X	X	X	
P243f-C5/H	X	X	X	
P243g-C5/H	X	X	X	

P243a-C3 Medium
P243b-C4 Medium
P243c-C4 High
P243d-C4 High
P243e-C5 High
P243f -C5 High
P243g-C5 High

EPOXY, POLYESTER & EPOXY-POLYESTER CHEMICALLY PRE-TREATED CARBON STEEL Paint systems

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Teknos INFRAIT Powder Coating systems have been designed to fulfill the test methods and testing times defined for specific corrosivity category in ISO 12944-6, even though powder coatings are not covered by the standard.

Please consult TEKNOS representative for choosing the most suitable product.

Paint		P243a	P243b	P243c	P243d	P243e	P243f	P243g
Corrosion category		C3/M	C4/M	C4/H	C4/H	C5/H	C5/H	C5/H
INFRAIT EP/PE 8087-30	EP/PE	-	-	-	80 µm	-	-	
INFRAIT EP 8024	EP	-	-	-	-	120 µm	-	
INFRAIT EP/PE 8086-05	EP/PE	-	-	-	-	-	80 µm	
INFRAIT PE 8350-15	PE	80 µm	100 µm	2x80 µm	80 µm	-	100 µm	2x80 µm
Total dry film thickness		80 µm	100 µm	160 µm	160 µm	120 µm	180 µm	160 µm
Paint system VOC*, g/m ²		0	0	0	0	0	0	0
Suitable chemical pre-treatment methods								
Zinc phosphating		X	X	X	X	X	X	X
Thin film technology** (TFT)		X	X	X	X	X	X	
Iron phosphating		X						

*Teknos powder coating products are solvent-free. However, they might contain some volatile organic compounds as residuals from additives, though the quantities are very low.

**Thin film technology is explained in detail in the brochure Powder Coating as a Corrosion Protection Method.

Example of paint system structure
P243a-C3/M – PE 8350-15 80/1 – Zn-phosph or TFT or Fe-phosph

These Teknos painting systems have been tested 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: Chemical pre-treatment should be made according to instructions given by the pre-treatment chemical supplier. The pre-treatment should cover all areas of the target substrate.

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