



ISO 12944

Corrosion protection of steel structures
by protective paint systems

It's as easy as ABC

A - Select Environment
B - Select Durability
C - Select System

The ISO 12944 standard is designed to assist anyone involved
in the design and construction of steel structures

This guide is intended to help choose the most appropriate
Pronto System for the project under consideration

If you want further details, don't hesitate to get in touch



A Select the Environment

Corrosive Environment (ISO 12944-2)	Typical Environments	
	Exterior	Interior
C1 - Very Low		Heated buildings with clean atmospheres, eg offices, shops, hotels and schools
C2 - Low	Atmospheres with low level of pollution. Mostly rural areas	Unheated buildings where condensation may occur, eg sports halls, warehousing
C3 - Medium	Urban and Industrial atmospheres, moderate sulphur dioxide pollution. Coastal areas with low salinity	Production rooms with high humidity and some air pollution, eg food processing plants, laundries, breweries and dairies
C4 - High	Industrial areas and coastal areas with moderate salinity	Chemical plants, swimming pools, coastal boatyards
C5I - Very High (Industrial)	Industrial areas with high humidity and aggressive atmospheres	Buildings or areas with almost permanent condensation and with high pollution
C5M - Very High (Marine)	Coastal and offshore areas with high salinity	Buildings or areas with almost permanent condensation and with high pollution

Most projects take place in and around the city, this is normally classified as a C3 environment.

B Select Life to 1st Major Maintenance

System Durability	Years to first Major Maintenance
Low	Less than 5 years
Medium	5 to 15 years
High	More than 15 years

How long do you want it to last before doing any major maintenance?
Consider where the steelwork will end up, will you be able to access it readily?



C Select a System

Corrosive Environment	System Durability		
	Low	Medium	High
C1	P10	P10	P10
C2	P10, P11, P50	P11, P50	P11, P51
C3	P11, P50, P56	P11, P51, P56	P52, P56
C4	P53, P55	P53, P55	P54, P55
C5I	P55	P55	-
C5M	P55	P55	-

Pronto System	Product Reference		Dry Film Thickness (microns)		ISO 12944-5 System Ref
			Product	System	
P10	200:026	QD High Build Primer	50	80	A2.01
	202:000	QD Gloss Finish	30		
P11	450:004	ProProtect Vinyl	160	160	A3.05
P50	100:006	2 Pk Epoxy Primer	80	120	A2.06
	360:000	2 Pk Poly Finish	40		
P51	100:006	2 Pk Epoxy Primer	80	160	A2.07 A3.08
	360:000	2 Pk Poly Finish	80		
P52	100:006	2 Pk Epoxy Primer	140	200	A3.09
	360:000	2 Pk Poly Finish	60		
P53	100:006	2 Pk Epoxy Primer	160	240	A4.08
	360:000	2 Pk Poly Finish	80		
P54	100:006	2 Pk Epoxy Primer	200	280	A4.09
	360:000	2 Pk Poly Finish	80		
P55	103:026	2 Pk Epoxy Zinc Rich	60	240	A4.12 A5I.04 A5M.05
	100:006	2 Pk Epoxy Primer	130		
	360:000	2 Pk Poly Finish	50		
P56	103:026	2 Pk Epoxy Zinc Rich	60	160	A3.11
	100:006	2 Pk Epoxy Primer	50		
	360:000	2 Pk Poly Finish	50		

Note, the above systems are based upon a low alloy carbon steel substrate. Surface Preparation - shotblast to Sa2.5 from rust grade A,B or C (See ISO 8501-1)
For further information, consult the relevant product technical data sheets