













# Steel performance matrix

		Level of durability			low	medium	high	low	medium	high	low	medium	high
		Condensation test, hrs ISO 6270			48	120	240	120	240	480	240	480	720
		Salt spray test, hrs ISO 9227*			120	240	480	240	480	720	480	720	1440
		Approximate time to 1st major repair			<5 years	5-15 years	>15 years	<5 years	5-15 years	>15 years	<5 years	5-15 years	>15 years
Grit Blasting Sa 2.5**	Pretreatment	System		C3			C4			C5-M&I***			
✓	None	Topcoat		●	●	●							
✓		Topcoat + Primax Xtend		●	●	●	●	●	●				
✓		Topcoat + Primax Protect		●	●	●	●	●	●				
✓	Iron Phosphate	Topcoat + Primax Xtend		●	●	●	●	●	●	●	●		
✓		Topcoat + Primax Protect		●	●	●	●	●	●	●	●		
✓	Zinc Phosphate	Topcoat + Primax Xtend		●	●	●	●	●	●	●	●	●	●
✓		Topcoat + Primax Protect		●	●	●	●	●	●	●	●	●	●
	Hot-Dipped Galvanized Steel + Sweeping****	Topcoat + Primax Xtend		●	●	●	●	●	●	●	●	●	●
		Topcoat + Primax Protect		●	●	●	●	●	●	●	●	●	●
	Hot-Dipped Galvanized Steel + Chromating****	Topcoat		●	●	●	●	●	●				
		Topcoat + Primax Xtend		●	●	●	●	●	●	●	●	●	●
		Topcoat + Primax Protect		●	●	●	●	●	●	●	●	●	●

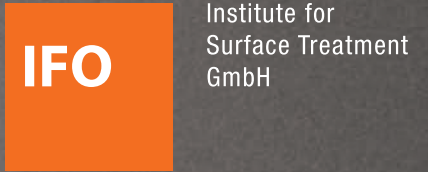
- Results are based on laboratory conditions and in combination with Jotun Facade 2487 as a topcoat. Other suitable topcoats from Jotun's portfolio are available - please consult with your local JPC representative
- Field performance will depend on the quality of substrate, pretreatment and application parameters. Environmental conditions and design of the coated object also influence field performance of the system.
- For best coating results follow Jotun's "Application Guide of Powder Coatings on Steel"
- For recommended film thicknesses kindly refer to Technical Data Sheets of relevant primers and topcoats

\* Salt spray test is not required by ISO 12944 for Galvanized Steel substrate also known as Zinc coated Steel

\*\* According to specification in Jotun's "Application Guide of Powder Coatings on Steel"

\*\*\* Chemical resistance test, hrs 168 ISO 2812-1. Relevant for C5-I only

\*\*\*\* Refer to Jotun's "Application Guide of Powder Coatings for Hot-Dipped Galvanized Steel"



Tested by IFO: Institute for Surface technology, Germany 2014



**ISO 12944 classifies the environments into the following corrosion classes:**

	Exterior	Interior
<b>C1</b>	–	Heated buildings with clean atmospheres, e.g. offices, shops, schools, hotels
<b>C2</b>	Atmospheres with low level of pollution. Mostly rural areas	Unheated buildings where condensation may occur, e.g. depots, sports halls
<b>C3</b>	Urban and industrial atmospheres, moderate sulfur dioxide pollution. Coastal areas with low salinity	Production rooms with high humidity and some air pollution, e.g. food-processing plants, laundries, breweries, dairies
<b>C4</b>	Industrial and coastal areas with moderate salinity	Chemical plants, swimming pools, coastal ships and boatyards
<b>C5-I (industrial)</b>	Industrial areas with high humidity and aggressive atmosphere	Buildings or areas with almost permanent condensation and with high pollution
<b>C5-M (marine)</b>	Coastal and offshore areas with high salinity	Buildings or areas with almost permanent condensation and with high pollution

**Primax Protect**

Primax Protect is a primer designed for blast-cleaned and phosphated steel objects that combines the highest level of corrosion protection with enhanced inter-coat adhesion and uniform flow.

**Primax Xtend**

Primax Xtend combines zero Zinc content and lowered powder consumption to provide an exceptionally economic and sustainable primer that delivers the highest level of corrosion protection.