



Jotun Protects Property



**ISO 12944 - 2018**  
Coating Selector

# A global provider of coatings



The Jotun Group is one of the world's leading manufacturers of paints, coatings and powder coatings. Jotun's operations ensure the very best in paint systems and products to protect and decorate surfaces in the residential, shipping and industrial markets. Everything we do, from development to production, marketing, sales and consultancy is to protect the property of our customers all over the world.



Jotun recognises the responsibility we have to the environment and have established our own GreenSteps programme. This programme allows us to address market demand for producing coatings solutions that are more sustainable. After all, for a more colourful world, we all need to be a little greener.



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UNIFORM STANDARD  
WORLDWIDE

**37**  
PRODUCTION  
FACILITIES

**64**  
COMPANIES

# ISO 12944

the universally accepted standard  
for corrosion protection of structural steel

Whether in the atmosphere, water or soil, all un-protected steel is subject to corrosion which will eventually lead to failure. To avoid this, steel should be protected not only from the service environment but also for the proposed lifetime of a structure.

The ISO 12944 standard is designed as a guideline for architects, engineers, specifiers, contractors and applicators in choosing the correct systems to meet the demands of both environment and service life.

Atmospheric corrosivity categories and examples of typical environments are given in BS EN ISO 12944-2 (Table 1) and BS EN ISO 9226 (Table 2).

With vast experience and expertise globally in protecting on & offshore structures of all concepts of the protective market, Jotun has a coating system to meet the exact anticorrosive requirements for every situation.

Choosing a coating system that complies with ISO 12944 can be achieved in three straightforward steps:



\* Systems for CX and Im4 are not included in this brochure. For further information please contact your local Jotun office.

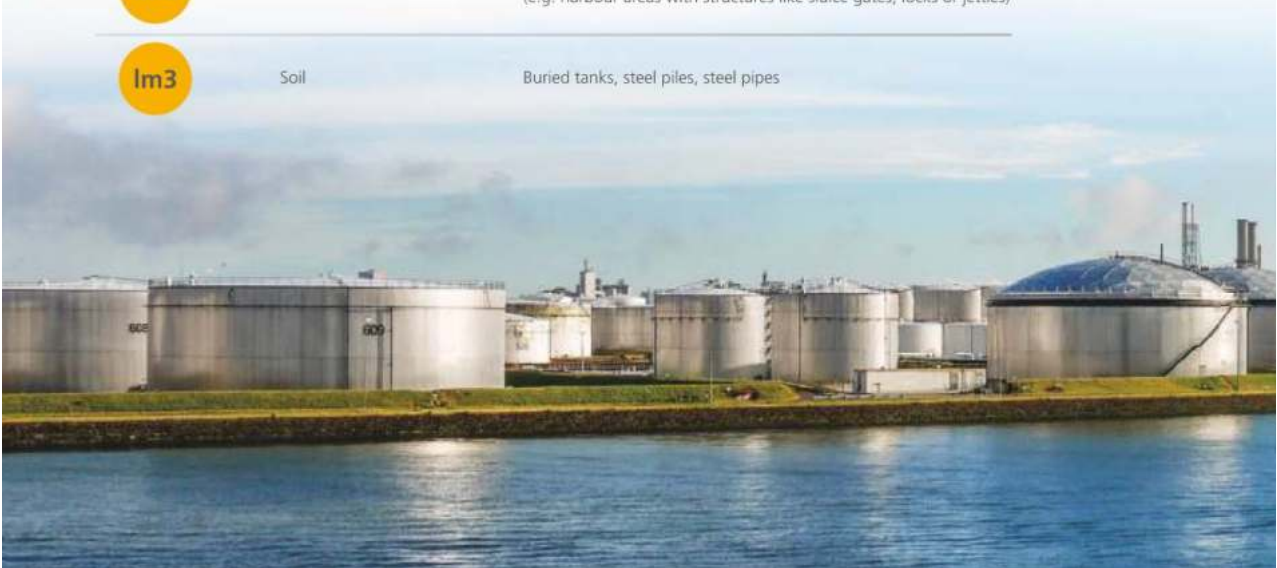


# 1 Select the corrosive environment most suited to your project

Corrosion category	Exterior	Interior
<b>C1</b> Very Low		Heated buildings with clean atmospheres, e.g. offices, shops, schools, hotels
<b>C2</b> Low	Atmospheres with low level of pollution; mostly rural areas	Unheated buildings where condensation can occur, e.g. depots, sports halls
<b>C3</b> Medium	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> High	Industrial areas and coastal areas with moderate salinity	Chemical plants, swimming pools, coastal ships and boatyards
<b>C5</b> Very high	Industrial areas with high humidity and aggressive atmosphere and coastal areas with high salinity	Buildings or areas with almost permanent condensation and with high pollution

## Categories for water and soil

Category	Environment	Examples of environments and structures
<b>Im1</b>	Fresh water	River installations, hydro-electric power plants
<b>Im2</b>	Seas or brackish water	Immersed structures without cathodic protection (e.g. harbour areas with structures like sluice gates, locks or jetties)
<b>Im3</b>	Soil	Buried tanks, steel piles, steel pipes



# 2 Select

the required lifetime  
of the coating system

Durability	Years to first major maintenance
Low (L)	Up to 7 years
Medium (M)	7 years to 15 years
High (H)	15 years to 25 years
Very high (VH)	More than 25 years



**Common durability considerations:**

- Design of a structure
- Conditions during application
- Time to first maintenance
- Accessibility for maintenance



# 3 Select

your coating system



Table C.2 Paint systems for carbon steel for corrosivity category C2

System No	PRIMER COAT			SUBSEQUENT COAT			PAINT SYSTEM		DURABILITY					
	Product	Type of product	No of Coats	DFT	Product	No of Coats	Type of product	DFT	Total DFT um	Total No of Coats	low	med	high	very high
C2.01	Pilot QD	AK	1	40	Pilot II or Pioner TC	1	AK / AY	40	80	2	✓			
C2.02	Pilot QD	AK	1	60	Pilot II or Pioner TC	1	AK / AY	40	100	2	✓	✓		
C2.03	Pilot QD	AK	1	120	Pilot II or Pioner TC	1	AK / AY	40	160	2	✓	✓	✓	
C2.04	Pilot QD	AK	2	80	Pilot II or Pioner TC	1	AK / AY	40	200	3	✓	✓	✓	✓
C2.05	Penguard HSP ZP or Penguard Express ZP	EP	1	70	Hardtop AX or XP	1	PUR	50	120	2	✓	✓	✓	
Alternative	Barrier 80	ZnR	1	50	Hardtop AX or XP	1	PUR	70	120	2	✓	✓	✓	
C2.06	Barrier 80	ZnR	1	80	Hardtop AX or XP	1	PUR	100	180	2	✓	✓	✓	✓
Alternative	Penguard HSP ZP or Penguard Express ZP	EP	1	120	Hardtop AX or XP	1	PUR	60	180	2	✓	✓	✓	✓
C2.07	Barrier 80	ZnR	1	60	N/A	N/A	N/A	N/A	60	1	✓	✓	✓	✓
C2.08	Barrier 80	ZnR	1	60	Hardtop AX or XP	1	PUR	100	160	2	✓	✓	✓	✓

Table C.3 Paint systems for carbon steel for corrosivity category C3

System No	PRIMER COAT			INTERMEDIATE COATS			SUBSEQUENT COAT			PAINT SYSTEM		DURABILITY						
	Product	Type of product	No of Coats	DFT	Product	No of Coats	Type of product	DFT	Product	No of Coats	Type of product	DFT	Total DFT um	Total No of Coats	low	med	high	very high
C3.01	Pilot QD	AK	1	60	N/A	N/A	N/A	N/A	Pilot II or Pioneer TC	1	AK / AY	40	100	2	✓			
C3.02	Pilot QD	AK	1	120	N/A	N/A	N/A	N/A	Pilot II or Pioneer TC	1	AK / AY	40	160	2	✓	✓		
C3.03	Pilot QD	AK	2	80	N/A	N/A	N/A	N/A	Pilot II or Pioneer TC	1	AK / AY	40	200	3	✓	✓	✓	
C3.04	Pilot QD	AK	2	100	N/A	N/A	N/A	N/A	Pilot II or Pioneer TC	1	AK / AY	60	260	3	✓	✓	✓	✓
C3.05	Penguard HSP ZP or Penguard Express ZP	EP	1	70	N/A	N/A	N/A	N/A	Hardtop AX or XP	1	PUR	50	120	2	✓	✓		
Alternative	Barrier 80	ZnR	1	50	N/A	N/A	N/A	N/A	Hardtop AX or XP	1	PUR	70	120	2	✓	✓		
C3.06	Barrier 80	ZnR	1	80	N/A	N/A	N/A	N/A	Hardtop AX or XP	1	PUR	100	180	2	✓	✓	✓	
Alternative	Penguard HSP ZP or Penguard Express ZP	EP	1	120	N/A	N/A	N/A	N/A	Hardtop AX or XP	1	PUR	60	180	2	✓	✓	✓	
C3.07	Barrier 80	ZnR	1	60	Penguard HSP ZP or Penguard Express ZP	1	EP	120	Hardtop AX or XP	1	PUR	60	240	3	✓	✓	✓	✓
Alternative	Penguard HSP ZP or Penguard Express ZP	EP	1	180	N/A	N/A	N/A	N/A	Hardtop AX or XP	1	PUR	60	240	2	✓	✓	✓	✓
C3.08	Barrier 80	ZnR	1	60	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	60	1	✓	✓		
C3.09	Barrier 80	ZnR	1	60	N/A	N/A	N/A	N/A	Hardtop AX or XP	1	PUR	100	160	2	✓	✓	✓	
C3.10	Barrier 80	ZnR	1	60	Penguard HSP ZP or Penguard Express ZP	1	EP	180	Hardtop AX or XP	1	PUR	60	200	3	✓	✓	✓	✓

DFT = Dry Film Thickness per coat.  
Total DFT = Dry Film Thickness of complete system.

In a addition to Polyurethane Topcoats, Jotun can also offer various Top Coat Technology.

Please refer to relevant technical data and Application guide for pre-treatment, recoating and curing conditions.

Specifications are sample specifications which comply with ISO 12944-5 2018. Please contact your local Jotun office, who can advise on numerous compliant alternatives.

# 3 Select

## your coating system



Table C.4 Paint systems for carbon steel for corrosivity category C4

System No	PRIMER COAT			INTERMEDIATE COATS			SUBSEQUENT COAT			PAINT SYSTEM		DURABILITY						
	Product	Type of product	No of Coats	DFT	Product	No of Coats	Type of product	DFT	Product	No of Coats	Type of product	DFT	Total DFT um	Total No of Coats	low	med	high	very high
C4.01	Pilot QD	AK	1	120	N/A	N/A	N/A	N/A	Pilot II or Pioneer TC	1	AK / AY	40	160	2	✓			
C4.02	Pilot QD	AK	2	80	N/A	N/A	N/A	N/A	Pilot II or Pioneer TC	1	AK / AY	40	200	3	✓	✓		
C4.03	Pilot QD	AK	2	100	N/A	N/A	N/A	N/A	Pilot II or Pioneer TC	1	AK / AY	60	260	3	✓	✓	✓	
C4.04	Penguard HSP ZP or Penguard Express ZP	EP	1	70	N/A	N/A	N/A	N/A	Hardtop AX or XP	1	PUR	50	120	2	✓			
Alternative	Barrier 80	ZnR	1	50	N/A	N/A	N/A	N/A	Hardtop AX or XP	1	PUR	70	120	2	✓			
C4.05	Barrier 80	ZnR	1	80	N/A	N/A	N/A	N/A	Hardtop AX or XP	1	PUR	100	180	2	✓	✓		
Alternative	Penguard HSP ZP or Penguard Express ZP	EP	1	120	N/A	N/A	N/A	N/A	Hardtop AX or XP	1	PUR	60	180	2	✓	✓		
C4.06	Barrier 80	ZnR	1	60	Penguard HSP ZP or Penguard Express ZP	1	EP	120	Hardtop AX or XP	1	PUR	60	240	3	✓	✓	✓	
Alternative	Penguard HSP ZP or Penguard Express ZP	EP	1	180	N/A	N/A	N/A	N/A	Hardtop AX or XP	1	PUR	60	240	2	✓	✓	✓	
C4.07	Barrier 80	ZnR	1	60	Penguard HSP ZP or Penguard Express ZP	1	EP	180	Hardtop AX or XP	1	PUR	60	300	3	✓	✓	✓	✓
Alternative	Penguard HSP ZP or Penguard Express ZP	EP	1	120	Penguard HSP ZP or Penguard Express ZP	1	EP	120	Hardtop AX or XP	1	PUR	60	300	3	✓	✓	✓	✓
C4.08	Barrier 80	ZnR	1	60	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	60	1	✓			
C4.09	Barrier 80	ZnR	1	60	N/A	N/A	N/A	N/A	Hardtop AX or XP	1	PUR	100	160	2	✓	✓		
C4.10	Barrier 80	ZnR	1	60	Penguard HSP ZP or Penguard Express ZP	1	EP	80	Hardtop AX or XP	1	PUR	60	200	3	✓	✓	✓	
C4.11	Barrier 80	ZnR	1	60	Penguard HSP ZP or Penguard Express ZP	1	EP	140	Hardtop AX or XP	1	PUR	60	260	3	✓	✓	✓	✓



Table C.5 Paint systems for carbon steel for corrosivity category C5

System No	PRIMER COAT			INTERMEDIATE COATS			SUBSEQUENT COAT			PAINT SYSTEM		DURABILITY						
	Product	Type of product	No of Coats	DFT	Product	No of Coats	Type of product	DFT	Product	No of Coats	Type of product	DFT	Total DFT um	Total No of Coats	low	med	high	very high
C5.01	Barrier 80	ZnR	1	80	N/A	N/A	N/A	N/A	Hardtop AX or XP	1	PUR	100	180	2	✓			
Alternative	Penguard HSP ZP or Penguard Express ZP	EP	1	120	N/A	N/A	N/A	N/A	Hardtop AX or XP	1	PUR	60	180	2	✓			
C5.02	Barrier 80	ZnR	1	60	Penguard HSP ZP or Penguard Express ZP	1	EP	120	Hardtop AX or XP	1	PUR	60	240	3	✓	✓		
Alternative	Penguard HSP ZP or Penguard Express ZP	EP	1	180	N/A	N/A	N/A	N/A	Hardtop AX or XP	1	PUR	60	240	2	✓	✓		
C5.03	Barrier 80	ZnR	1	60	Penguard HSP ZP or Penguard Express ZP	1	EP	180	Hardtop AX or XP	1	PUR	60	300	3	✓	✓	✓	
Alternative	Penguard HSP ZP or Penguard Express ZP	EP	1	120	Penguard HSP ZP or Penguard Express ZP	1	EP	120	Hardtop AX or XP	1	PUR	60	300	3	✓	✓	✓	
C5.04	Barrier 80	ZnR	1	80	Penguard HSP ZP or Penguard Express ZP	1	EP	200	Hardtop AX or XP	1	PUR	80	360	3	✓	✓	✓	✓
Alternative	Penguard HSP ZP or Penguard Express ZP	EP	1	150	Penguard HSP ZP or Penguard Express ZP	1	EP	150	Hardtop AX or XP	1	PUR	60	360	3	✓	✓	✓	✓
C5.05	Barrier 80	ZnR	1	60	N/A	N/A	N/A	N/A	Hardtop AX or XP	1	PUR	100	160	2	✓			
C5.06	Barrier 80	ZnR	1	60	Penguard HSP ZP or Penguard Express ZP	1	EP	80	Hardtop AX or XP	1	PUR	60	200	3	✓	✓		
C5.07	Barrier 80	ZnR	1	60	Penguard HSP ZP or Penguard Express ZP	1	EP	140	Hardtop AX or XP	1	PUR	60	260	3	✓	✓	✓	
C5.08	Barrier 80	ZnR	1	60	Penguard HSP ZP or Penguard Express ZP	1	EP	200	Hardtop AX or XP	1	PUR	60	320	3	✓	✓	✓	✓

DFT = Dry Film Thickness per coat.  
Total DFT = Dry Film Thickness of complete system.

In a addition to Polyurethane Topcoats, Jotun can also offer various Top Coat Technology.

Please refer to relevant technical data and Application guide for pre-treatment, recoating and curing conditions.

Specifications are sample specifications which comply with ISO 12944-5 2018. Please contact your local Jotun office, who can advise on numerous compliant alternatives.

# 3 Select

## your coating system



Table C.6 Paint systems for carbon steel for immersion categories Im1 Im2 Im3

System No	PRIMER COAT			INTERMEDIATE COATS			SUBSEQUENT COAT			PAINT SYSTEM			DURABILITY						
	Product	Type of product	No of Coats	Product	No of Coats	Type of product	Product	No of Coats	Type of product	Product	No of Coats	Type of product	DFT	Total DFT um	Total No of Coats	low	med	high	very high
L03	Penguard Pro	EP	1	N/A	N/A	N/A	N/A	N/A	N/A	Penguard Pro	1	EP	190	380	2	✓	✓	✓	
L04	Penguard Pro	EP	1	N/A	N/A	N/A	N/A	N/A	N/A	Penguard Pro	1	EP	270	540	2	✓	✓	✓	✓
L05	Penguard Pro	EP	1	N/A	N/A	N/A	N/A	N/A	N/A	Penguard Pro	1	EP	200	400	2	✓	✓	✓	✓
L06	Penguard Pro	EP	1	N/A	N/A	N/A	N/A	N/A	N/A	Penguard Pro	1	EP	300	600	2	✓	✓	✓	✓

Jotun do not recommend Zinc primers for under water thus, the exclusion of systems 1.01 and 1.02

Table E.1 Paint systems on Thermal Sprayed metallic coating for corrosivity categories C4 and C5

System No	Corrosivity category	SEALER COAT			SUBSEQUENT COAT			SUBSEQUENT COAT			PAINT SYSTEM			DURABILITY			
		Binder Type	No of Coats	DFT	Product	No of Coats	Type of product	DFT	Product	No of Coats	Type of product	DFT	Total DFT um	Total No of Coats	high	very high	
TSM 4.01	C4	EP, PUR	1	N/A	Penguard HSP ZP or Penguard Express ZP	1	EP	100	Hardtop AX or XP	1	PUR	60	160	2	✓		
TSM 4.02		EP, PUR	1	N/A	Penguard HSP ZP or Penguard Express ZP	1	EP	140	Hardtop AX or XP	1	PUR	60	200	2	✓	✓	
TSM 5.01	C5	EP, PUR	1	N/A	Penguard HSP ZP or Penguard Express ZP	1	EP	140	Hardtop AX or XP	1	PUR	60	200	2	✓		
TSM 5.02		EP, PUR	1	N/A	Penguard HSP ZP or Penguard Express ZP	1	EP	160	Hardtop AX or XP	1	PUR	80	240	2	✓	✓	

Sealer coat not included in NDET or Number of coats. For systems with Thermal Spray Aluminium (TSA) please contact your local Jotun office.

Table D.1 Paint systems on hot dip galvanised steel for corrosivity categories C2 to C5

System No	Corrosivity Category	PRIMER COAT			INTERMEDIATE COATS			SUBSEQUENT COAT			PAINT SYSTEM			DURABILITY					
		Product	Type of product	No of Coats	DFT	Product	No of Coats	Type of product	DFT	Product	No of Coats	Type of product	DFT	Total DFT um	Total No of Coats	low	med	high	very high
G2.01	C2	Penguard HB	EP	1	80	N/A	N/A	N/A	N/A	N/A	N/A	N/A	80	1	✓	✓	✓		
G2.03		Penguard HB	EP	1	120	N/A	N/A	N/A	N/A	N/A	N/A	N/A	120	1	✓	✓	✓	✓	
G3.01		Penguard HB	EP	1	80	N/A	N/A	N/A	N/A	N/A	N/A	N/A	80	1	✓	✓	✓		
G3.02	C3	Penguard HB	EP	1	120	N/A	N/A	N/A	N/A	N/A	N/A	N/A	120	1	✓	✓	✓	✓	
G3.04		Penguard HB	EP	1	80	N/A	N/A	N/A	N/A	Hardtop AX or XP	1	PUR	80	2	✓	✓	✓	✓	✓
G4.01	C4	Penguard HB	EP	1	80	N/A	N/A	N/A	N/A	N/A	N/A	N/A	80	1	✓	✓	✓		
G4.02		Penguard HB	EP	1	120	N/A	N/A	N/A	N/A	N/A	N/A	N/A	120	1	✓	✓	✓		
G4.04		Penguard HB	EP	1	80	N/A	N/A	N/A	N/A	Hardtop AX or XP	1	PUR	80	2	✓	✓	✓	✓	✓
G4.06		Penguard HB	EP	1	80	Penguard HSP ZP or Penguard Express ZP	1	EP	60	Hardtop AX or XP	1	PUR	60	3	✓	✓	✓	✓	✓
G5.01	C5	Penguard HB	EP	1	120	N/A	N/A	N/A	N/A	N/A	N/A	N/A	120	1	✓	✓	✓		
G5.02		Penguard HB	EP	1	80	N/A	N/A	N/A	N/A	Hardtop AX or XP	1	PUR	80	2	✓	✓	✓		
G5.04		Penguard HB	EP	1	80	Penguard HSP ZP or Penguard Express ZP	1	EP	70	Hardtop AX or XP	1	PUR	50	3	✓	✓	✓	✓	✓
G5.05		Penguard HB	EP	1	80	Penguard HSP ZP or Penguard Express ZP	1	EP	110	Hardtop AX or XP	1	PUR	50	3	✓	✓	✓	✓	✓
																✓	✓	✓	✓

Jotun do not recommend an Alkyd system for Galvanized Steel

DFT = Dry Film Thickness per coat.  
Total DFT = Dry Film Thickness of complete system.

In a addition to Polyurethane Topcoats Jotun can also offer various Top Coat Technology.

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Specifications are sample specifications which comply with ISO 12944-5 2018. Please contact your local Jotun office, who can advise on numerous compliant alternatives.

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