Jotun Protects Property

ISO 12944 - 2018
Coating Selector

A global provider of coatings

JOTUN
Jotun Protects Property

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.

REPRESENTED IN MORE THAN
100
COUNTRIES
ACROSS ALL CONTINENTS

Jotun GreenSteps

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.

1000+
SKILLED COATING ADVISORS
UNIFORM STANDARD WORLDWIDE

37
PRODUCTION FACILITIES

64
COMPANIES

- Reducing VOC emissions
- Reducing hazardous materials
- Reducing energy consumption
- Reducing carbon footprint
- Reducing waste

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:

1 * select **ENVIRONMENT**

2 select **DURABILITY**

3 select **COATING SYSTEM**

* 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
C1	Very Low		Heated buildings with clean atmospheres, e.g offices, shops, schools, hotels
C2	Low	Atmospheres with low level of pollution; mostly rural areas	Unheated buildings where condensation can occur, e.g. depots, sports halls
C3	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
C4	High	Industrial areas and coastal areas with moderate salinity	Chemical plants, swimming pools, coastal ships and boatyards
C5	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
Im1	Fresh water	River installations, hydro-electric power plants
Im2	Seas or brackish water	Immersed structures without cathodic protection (e.g. harbour areas with structures like sluice gates, locks or jetties)
Im3	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 maintenence

3 Select
your coating system

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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 Pioner 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 Pioner 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 Pioner 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 Pioner 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

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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 Pioner 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 Pioner 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 Pioner 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

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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	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
I.03	Penguard Pro	EP	1	190	N/A	N/A	N/A	N/A	Penguard Pro	1	EP	190	380	2	✓	✓	✓	
I.04	Penguard Pro	EP	1	270	N/A	N/A	N/A	N/A	Penguard Pro	1	EP	270	540	2	✓	✓	✓	✓
I.05	Penguard Pro	EP	1	200	N/A	N/A	N/A	N/A	Penguard Pro	1	EP	200	400	2	✓	✓	✓	
I.06	Penguard Pro	EP	1	300	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 NDFT 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	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	N/A	120	1	✓	✓	✓	✓
G3.01	C3	Penguard HB	EP	1	80	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	80	1	✓	✓		
G3.02		Penguard HB	EP	1	120	N/A	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	160	2	✓	✓	✓	✓
G4.01	C4	Penguard HB	EP	1	80	N/A	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	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	160	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	200	3	✓	✓	✓	✓
G5.01	C5	Penguard HB	EP	1	120	N/A	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	160	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	200	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	240	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.

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.

Jotun Marine Coatings and Jotun Protective Coatings offices worldwide

Legal Jotun entities worldwide are listed. For details of Branch offices and Jotun representation in countries not listed, please visit **jotun.com**

AUSTRALIA
Jotun Australia Pty. Ltd.,
P.O. Box 105, Altona North,
9 Cawley Road,
BROOKLYN, VIC 3025
Tel: +61 3 9314 0722
Fax: +61 3 9314 0423

BRAZIL
Jotun Brasil Ltda.
Estrada Ademar Ferreira Torres 250
Caluge - Itaborai (RJ) CEP 24808-520
RIO DE JANEIRO
Tel: +55 21 3147 3850
Fax: +55 21 3147 3861

CYPRUS
Jotun Cyprus Ltd.
56 Theodorou Potamianou
Aphrodite Court, 1st Floor
4155, Kato Polemidia
LIMASSOL
Tel: +357 25 374455 / 374440 / 374477
Fax: +357 25 374400

P.R. of CHINA
Jotun Coatings (Zhangjiagang) Co. Ltd.
Jotun COSCO Marine Coatings
(Qingdao) Co. Ltd.
Floor 20, Jiu Shi Mansions,
No. 28 Zhong Shan Road (South)
SHANGHAI 200010
Tel: +86 21 6333 080 0
Fax:+86 21 6326 968 6

Jotun Coatings (Zhangjiagang) Co. Ltd.
Jotun COSCO Marine Coatings
(Qingdao) Co. Ltd.
Room 709-12, Goldlion Digital Network
Centre, 138 Tiyu Road East,
GUANGZHOU, 510620
Tel: +86 20 38 78 07 49
Fax:+86 20 38 78 19 66

HONG KONG
Jotun COSCO Marine Coatings (H.K.) Ltd
Room 902, 9/F,
101 King's Road, North Point
HONG KONG
Tel: +852 2527 6466
Fax:+852 2861 1307

DENMARK
Jotun Danmark A/S Jotun Coatings
Columbusvej 5, 2860 Søborg,
COPENHAGEN
Tel: +45 4492 9400
Fax:+45 4492 9401

EGYPT
El Mohandes Jotun S.A.E.
Plot 193, Second District,
City Center, Fifth Settlement,
NEW CAIRO
Tel: +202 2614 9999
Fax: +202 2614 9998

FINLAND
Nor-Maali OY
Vanhatie 20, 15240 LAHTI
Tel: +358 3 874 650
Fax:+358 3 874 6550

FRANCE
Jotun France S.A.
22/24 Rue du President Wilson, Bat.A
92300 LEVALLOIS PERRET
Tel: +33 1 4519 3882
Fax:+33 1 4519 3894

GERMANY
Jotun (Deutschland) GmbH
Haferweg 38
22769 HAMBURG
Tel: +49 40 851 960
Fax:+49 40 856 234

GREAT BRITAIN
Jotun Paints (Europe) Ltd.
Stather Road, Flixborough,
SCUNTHORPE DN15 8RR
Tel: +44 1724 400 000
Fax:+44 1724 400 100

GREECE
Jotun Hellas Ltd.
33, Zeppou Street,
Glyfada
ATHENS 16675
Tel: +30 210 42 85 980-82
+30 210 42 86 035-37
Fax:+30 210 42 85 983/
+30 210 42 87 237

INDIA
Jotun India Pvt Ltd.
502, 5th Floor,
Boston House,
Suren Road,
Behind Cinemax Theatre,
Andheri East,
Mumbai – 400 093
Tel: +91 22 2822 4600
+91 22 2820 5900 (+fax)
Fax:+91 22 2820 5900

INDONESIA
P.T. Jotun Indonesia
Kawasan Industri MM2100
Blok KK-1, Cikarang Barat
Bekasi 17520
Tel: +62 21 8998 2657
Fax:+62 21 8998 2658

IRELAND
Jotun (Ireland) Ltd.,
Unit K7, Marina Commercial Park,
Centre Park Road, CORK
Tel: +353 214 965955
Fax:+353 214 965992

ITALY
Jotun Italia S.P.A.
Via Petronio, 8, Zona Ind. Noghere
34147 - MUGGIA (TRIESTE)
Tel: +39 040 23 98204
Fax:+39 040 23 98222

JAPAN
NKM Coatings Co., Ltd.
12–1, Minamirokugo 3-chome,
Ota-ku,
TOKYO 144-0045
Tel: +81 3 6758 2212
Fax:+81 3 6758 2213

KOREA (SOUTH)
Chokwang-Jotun Ltd.
30th Block Jisa Science Park,
1205 Jisa-dong, Gangseo-gu,
BUSAN 618-230
Tel: +82 517 976 000
Fax:+82 517 117 735

LIBYA
Jotun Libya J.S.Co
Almumtaz Co. S.A. (Jotun).
Alseka Street
P.O. Box 6850
TRIPOLI
Tel:+218 214777811
Fax:+218 214780718

MALAYSIA
Jotun Paints (Malaysia) Sdn. Bhd.
Lot 7 Persiaran Perusahaan,
Section 23, P.O. Box 7050
40700 SHAH ALAM
Tel: +60 351 235 500
Fax:+60 351 235 632

THE NETHERLANDS
Jotun B.V.
Postbus 208
3200 AE SPIJKENISSE
Visiting address:
Curieweg 11b, 3208 KJ Spijkenisse
ROTTERDAM
Tel: +31 181 678 300
Fax:+31 181 617 899

NORWAY
Jotun A/S
P.O. Box 2021,
3202 SANDEFJORD
Visiting address:
Hystadveien 167, 3209 Sandefjord
Tel: +47 33 45 70 00
Fax:+47 33 45 79 00

OMAN
Jotun Paints Co. LLC
Rusayl Ind. Estate, Road No.10
P.O. Box 672 Code 111, MUSCAT
Tel: +968 2444 6100
Fax:+968 2444 6105

PAKISTAN
Jotun Pakistan (Pvt.) Ltd.
2KM Defence Road, Off 9KM Raiwind
Road, Adjacent Valencia Homes Gate
LAHORE 544770
Tel: +92 423 532 350 0-3
Fax:+92 423 532 1387

PHILIPPINES
Jotun (Philippines) Inc.
846 West Service Road, Km.18
South Super Highway
Paranaque City,
METRO MANILA 1714
Tel: +63 2239 1032-34
Fax:+63 2822 0760

POLAND
Jotun Polska Sp.zo.o.
ul. Magnacka 15,
80-180 GDAŃSK KOWALE
Tel: +48 58 555 1515
Fax:+48 58 781 9692

RUSSIA
Jotun Paints O.O.O.
Varshavskaya Str., 23/2, Office 75
196128 ST. PETERSBURG
Tel: +7 812 640 00 80
Fax:+7 812 640 00 81

SAUDI ARABIA
Jotun Saudia Co. Ltd.
Jeddah Industrial City, Phase 3,
P.O. Box 34698, JEDDAH 21478
Tel: +966 2635 0535 / 2636 1271
Fax:+966 2636 2483

SINGAPORE
Jotun (Singapore) Pte. Ltd.
37 Tuas View Crescent
Singapore 637236
Tel: +65 650 882 88
Fax:+65 6265 7484

SOUTH AFRICA
Jotun Paints South Africa (PTY) Ltd.
Wimbledon Road, P.O.Box 187
BLACKHEATH 7581
Tel: +27 21 905 1070
Fax:+27 21 905 1652

SPAIN
Jotun Iberica S.A.
Poligon Santa Rita,
Calle Estatica no. 3,
08755 Castellbisbal,
BARCELONA
Tel: +34 937 711 800
Fax:+34 937 711 801

SWEDEN
Jotun Sverige AB
P.O. Box 151, Klangfärgsgatan 13,
421 22 VÄSTRA FRÖLUNDA
Tel: +46 3169 6300
Fax:+46 3169 6397

THAILAND
Jotun Thailand Ltd
Amata Nakom Ind. Estate (BIPII)
700/353 Moo 6 Tumbol
Donhualoh, Amphur Muang
CHONBURI 2000
Tel: +66 2 022 9888
Fax:+66 38 214 373/375

TURKEY
Jotun Boya San. ve Ticaret. A.S.
Balabandere Caddesi Hilpark Suites Sitesi No.10,
Istinye 34460 Sariyer
ISTANBUL
Tel: +90 21 2279 7878
Fax:+90 21 2279 2549

U. A. E.
Abu Dhabi
Jotun Abu Dhabi (LLC)
P.O. Box 3714, Mussafah
ABU DHABI
Tel: +971 2691 0700
Fax:+971 2551 0232

Dubai
Jotun U.A.E. Ltd. (LLC)
P.O. Box 3671,
Al Quoz Industrial Area
DUBAI
Tel: +971 4339 5000
Fax:+971 4338 0666

USA
Jotun Paints Inc.
9203 Highway 23, P.O. Box 159,
Belle Chasse, LA 70037
Tel: + 1 713 860 8241
Fax: +1 713 860 8242

VIETNAM
Jotun Paints (Vietnam) Co. Ltd.
Song Than Industrial. Zone,
No.1 Street 10,
Di An District, Binh Duong Province
Tel: +84 650 3742206
Fax:+84 650 374 2205

YEMEN
Jotun Yemen Paints Co. Ltd
P.O. Box 70183, Al Alam
ADEN
Tel: +967 2820 546-9
Fax:+967 2249 362

Jotun A/S
P.O. Box 2021,
N-3202 Sandefjord, Norway
Tel:+47 33 45 70 00
jotun.com

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