



# New Guard Coatings Group

A global reputation to protect.

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[www.newguardcoatings.com](http://www.newguardcoatings.com)

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# *Hardtop*

topcoats for superior finishes



# Hardtop | TOPCOATS

## Superior finishes for all structures

### The premium topcoat brand

Jotun has supplied premium topcoats for heavy corrosion systems all over the world for decades. To make selection easier, Jotun has gathered all two component topcoats under the following umbrella brand - Hardtop. The number one selling technology platform today is polyurethanes, but we see increased interest for other technologies such as polysiloxanes and two component acrylics. All these technologies may be found under the Hardtop brand today.

Jotun customers today demand more than just good colour stability. Elements like abrasive resistance, flexibility, VOC levels and gloss retention are just as important. Jotun has thus taken these complex customer demands into consideration, and now offer different products and technologies to fill individual needs. We are certain that you will find products that cover your topcoat needs in this brochure.



## Core products in the Hardtop range

- **Hardtop XP:** high solid polyurethane with excellent application properties
- **Hardtop Flexi:** flexible and impact resistant polyurethane
- **Hardtop AS:** high gloss polyurethane with excellent chemical resistant properties
- **Hardtop HB:** low gloss polyurethane
- **Hardtop Optima:** polysiloxane topcoat with excellent finish and gloss retention
- **Hardtop CA:** two-component isocyanate free acrylic with a wide colour range



## Topcoat in a coating system

The topcoat must also be compatible with the anticorrosive primer system. Jotun is taking good care to secure good adhesion and appearance in the finished system. To ensure the success of the paint system it is important to use recommended primers and application data given in technical data sheets.



# Hardtop | XP

The Number 1 selling polyurethane topcoat, retaining its gloss level over extended periods



Hardtop XP is one of the most popular polyurethane topcoats – protecting millions of square metres every year. It is available worldwide and is a favourite topcoat among painters. Hardtop XP is extremely versatile and can be applied by airless spray, brush or roller on a wide range of primers. Roller application properties are excellent with good flow and finish. Low dry spray makes the gloss level predictable and on-site friendly. Hardtop XP has great gloss and colour retention, and gives a better finish, less spills and lower paint consumption.

## The Number 1 selling polyurethane topcoat for heavy corrosion systems

- Excellent colour and gloss retention
- Excellent application properties
- Excellent brush and roller application properties
- VOC compliant and high solids formulation

# Hardtop

FLEXI

## High standards of flexibility, durability, gloss and impact resistance

Hardtop Flexi is a high solids (64% volume) polyurethane topcoat with excellent wetting and adhesion properties. Hardtop Flexi has a remarkable ability to resist impact and will maintain initial gloss level over extended periods.

Low VOCs, application of single coats up to 150 microns and fast drying add to the features of Hardtop Flexi. This is one of the few products that contain anticorrosive pigments for best direct to metal performance.

### Exceptional flexibility and impact resistance

- Can be applied in thick coats
- Great adhesion to most primers and substrates
- Direct to metal performance
- Contains anticorrosive pigmentation
- Slightly lower gloss level works as a 'hider of imperfections'
- Good gloss retention
- VOC compliant



# Hardtop | AS

Decades of world proven performance



Hardtop AS is a topcoat with a very long track record. Millions of litres have been sold all around the world. This versatile polyurethane has been a favourite for decades and has proven performance. Hardtop AS is the best choice when great chemical or solvent performance is important.

## **A versatile topcoat for steel and other metals, concrete & plastics**

- Excellent colour and gloss retention
- Good adhesion
- Good chemical resistance
- Well proven formulation

# Hardtop

HB

Smooth low gloss finish



When a lower level of gloss is required Hardtop HB is a good choice.

Properties are similar to the well proven Hardtop AS, but with a lower gloss level.

## The most popular low gloss polyurethane

- Smooth low gloss finish
- Possible to apply in higher film thickness
- 4:1 mixing ratio - easy to mix
- Low gloss hides imperfections in the surface



# Hardtop | OPTIMA

## Ultimate lasting gloss appearance

Hardtop Optima is a high solids product based on a polysiloxane resin with outstanding gloss and colour retention that provides superior corrosion protection. Hardtop Optima has optimal adhesion to selected primers, while maintaining its flexibility throughout the system's working life. Extra focus has been put on achieving a formulation that ensures predictable curing. The recommended selection of compatible primers is limited to enable a long-life world class system.

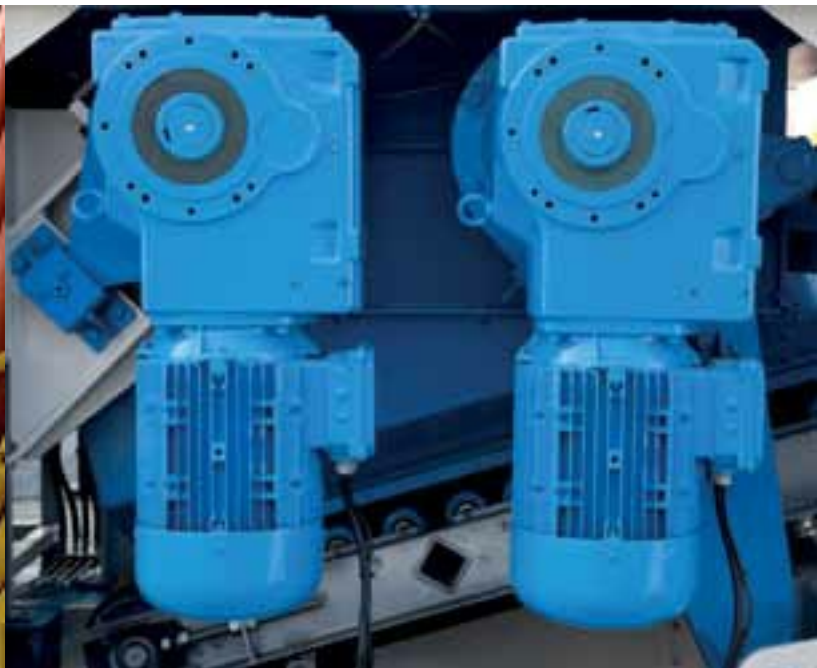
### For long lasting performance

- Excellent colour and gloss retention
- Excellent VOC values
- Excellent finish
- Fast drying
- Long lasting flexibility formulation
- Urethane-free



# Hardtop | CA

The acrylic alternative to a polyurethane topcoat



Hardtop CA is a two-component acrylic topcoat with good colour and gloss retention and is an excellent alternative to a polyurethane topcoat. This crosslinked acrylic has a predictable curing that is appreciated by customers. Hardtop CA is available in a wide range of colours through the MCI colour system.

## **Flexible, abrasion, chemical and water resistant**

- Good weather resistance
- Isocyanate free
- Predictable curing
- VOC compliant

# Hardtop

Topcoats for superior finishes

	Hardtop XP	Hardtop Flexi	Hardtop AS
Technology	Polyurethane	Flexible PU	Polyurethane
Gloss level	Glossy	Glossy	Glossy
Thinner	No. 10	No. 10	No. 10
Colours	Unlimited	Unlimited	Unlimited
Solids (volume %)	63% ± 2	64% ± 2	50% ± 2
DFT:			
Typical	60 µm	80 µm	50 µm
Dry	40-80 µm	50-150 µm	40-60 µm
Wet	65-130 µm	80-120 µm	80-120 µm
DRYING TIME (23°C):			
Surface dry	3h	1.5h	1h
Dry to recoat, min	6h	3h	5h
Mixing ratio	10:1	4:1	4:1
Potlife (+23°C)	1.5h	2h	4h
Flash point (Setaflash)	30°C ± 2	25°C ± 2	26°C ± 2
Gloss retention	Excellent	Very good	Excellent
Water resistance	Very good	Very good	Very good
Abrasion resistance	Good	Very good	Very good
Chemical resistance	Good	Very good	Very good
Flexibility	Very good	Excellent	Very good
VOC level (PG6)	320	340	415



Hardtop HB	Hardtop Optima	Hardtop CA
Polyurethane	Polysiloxane	2 K acrylic
Low gloss	Glossy	Glossy
No. 10	No. 7 or 17	No. 7 or 17
Unlimited	Unlimited	Unlimited
50% ± 2	76% ± 2	60% ± 2
80 µm	75 µm	75 µm
60-100 µm	60-100 µm	60-125 µm
120-200 µm	80-130 µm	100-210 µm
2h	3h	2.5h
6h	4h	5h
4:1	4:1	9:1
4h	6h	4h
26°C ± 2	30°C ± 2	28°C ± 2
Excellent	Excellent	Good
Very good	Very good	Very good
Very good	Very good	Good
Very good	Very good	Good
Very good	Good	Excellent
418	215	340



# Jotun worldwide

Jotun Coatings and Jotun Paints  
Division of Jotun A/S  
Legal Jotun entities world wide are  
listed. For details of Branch offices and  
Jotun representation in countries not  
listed, please visit [jotun.com](http://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.  
Av Santa Luzia, 2084 - Santa Luzia  
24.722-315 São Gonçalo  
RIO DE JANEIRO  
Tel: +55 21 2776 1313  
Fax: +55 21 2776 2263

## PR. of CHINA

Jotun Coatings (Zhangjiagang) Co. Ltd.  
Jotun COSCO Marine Coatings  
(Qingdao) Co. Ltd.  
Floor 20, Ju 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 1208, 12/F, Stanhope House  
734 King's Road, Quarry Bay  
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  
El Sheikh Aly Gad El Haq Street  
Florida Mall,  
Masaken Sheraton - 4th Floor  
CAIRO  
Tel: +20 2265 1800  
Fax: +20 2265 1801

## FINLAND

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

## FRANCE

Jotun France SA.  
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, Flaxborough,  
SCUNTHORPE DN15 8RR  
Tel: +44 1724 400 000  
Fax: +44 1724 400 100

## GREECE

Jotun Hellas Ltd.  
18, Vouliagmenis Avenue,  
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 Paints and Chemicals  
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, COBK  
Tel: +353 214 965955  
Fax: +353 214 965992

## ITALY

Jotun Italia SPA.  
Via Petronio, 8, Zona Ind. Noghere  
34147 - MUGLIA (TRIESTE)  
Tel: +39 040 23 98204  
Fax: +39 040 23 98222

## KOREA (SOUTH)

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

## LIBYA

Jotun Libya J.S.Co  
Al Mumtaz Imp. of Paints and Equipm. Co.  
P.O. Box 6850  
Hail Al Andalou district  
TRIPOLI  
Tel: +218 214777811  
Fax: +218 214780718

## MALAYSIA

Jotun (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.) Limited  
Plot no. 2-H, Sector 5  
Korangi Industrial Area, KARACHI  
Tel: +92 213 5121 491-2  
Fax: +92 213 5121 493

## 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. 10 Lutego 16, 81-364 GDYNIA  
Tel: +48 58 555 1515  
Fax: +48 58 781 9692

## RUSSIA

Jotun Paints O.O.O.  
Varshavskaya Str., 23/ 2, Office 53  
196128 ST. PETERSBURG  
Tel: +7 81 2332 0080 / 2785 0034  
Fax: +7 81 2783 0525

## 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.  
Wimbleton Road, P.O.Box 187  
BLACKHEATH 7581  
Tel: +27 21 905 1070  
Fax: +27 21 905 1652

## SPAIN

Jotun Iberica SA.  
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 (BIPI)  
700/353 Moo 6 Tumbol  
Donhualoh, Amphur Muang  
CHONBURI 2000  
Tel: +66 38 214 824-6/214 347-51  
Fax: +66 38 214 373/375

## TURKEY

Jotun Boya San. ve Ticaret. A.S.  
Yeni Camlik Caddesi, Ayaz Sok. No. 2/4,  
4. Levent,  
ISTANBUL 34418  
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 2551 0300  
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: +1 800 229 3538 /  
+1 504 394 3538  
Fax: +1 504 394 3726

## VIETNAM

Jotun Paints (Vietnam) Co. Ltd.  
Song Than Industrial. Zone,  
No.1 Street 10,  
Di An District, Binh Duong Province  
Tel: +84 65 074 2206-9  
Fax: +84 65 074 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](http://jotun.com)



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