



JOTUN

MARINE COATINGS

BRINGING NEW DIMENSIONS TO ANTICORROSIVES

THE ADVANCED

Jotamastic

RANGE

THE ADVANCED

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THE SOLUTIONS BROADEN

THE TECHNOLOGY GAP WIDENS



THE PROTECTION DEEPENS

BRINGING NEW DIMENSIONS TO ANTICORROSIVES

In an ideal world, steel substrates at maintenance would be prepared to Sa 2½. In reality, costly downtime, restricted budgets and complex structures with difficult to reach areas can mean blast cleaning is not an option.

The new generation of the Jotamastic range offers tailored solutions to meet any challenge.

● THE TECHNOLOGY GAP WIDENS

The latest advances in Jotun's market leading mastics technology further improve the anticorrosive protective properties of the Jotamastic range.

With more than 25 years' experience and continuous growth, the Jotamastic range has established itself as the leading surface tolerant repair and maintenance primers.

During this period the valuable insights provided by continuous customer feedback have contributed towards the development of the new Jotamastic range.

The expanded range combines modern technology to provide a step change in high-tech surface tolerant coating solutions.

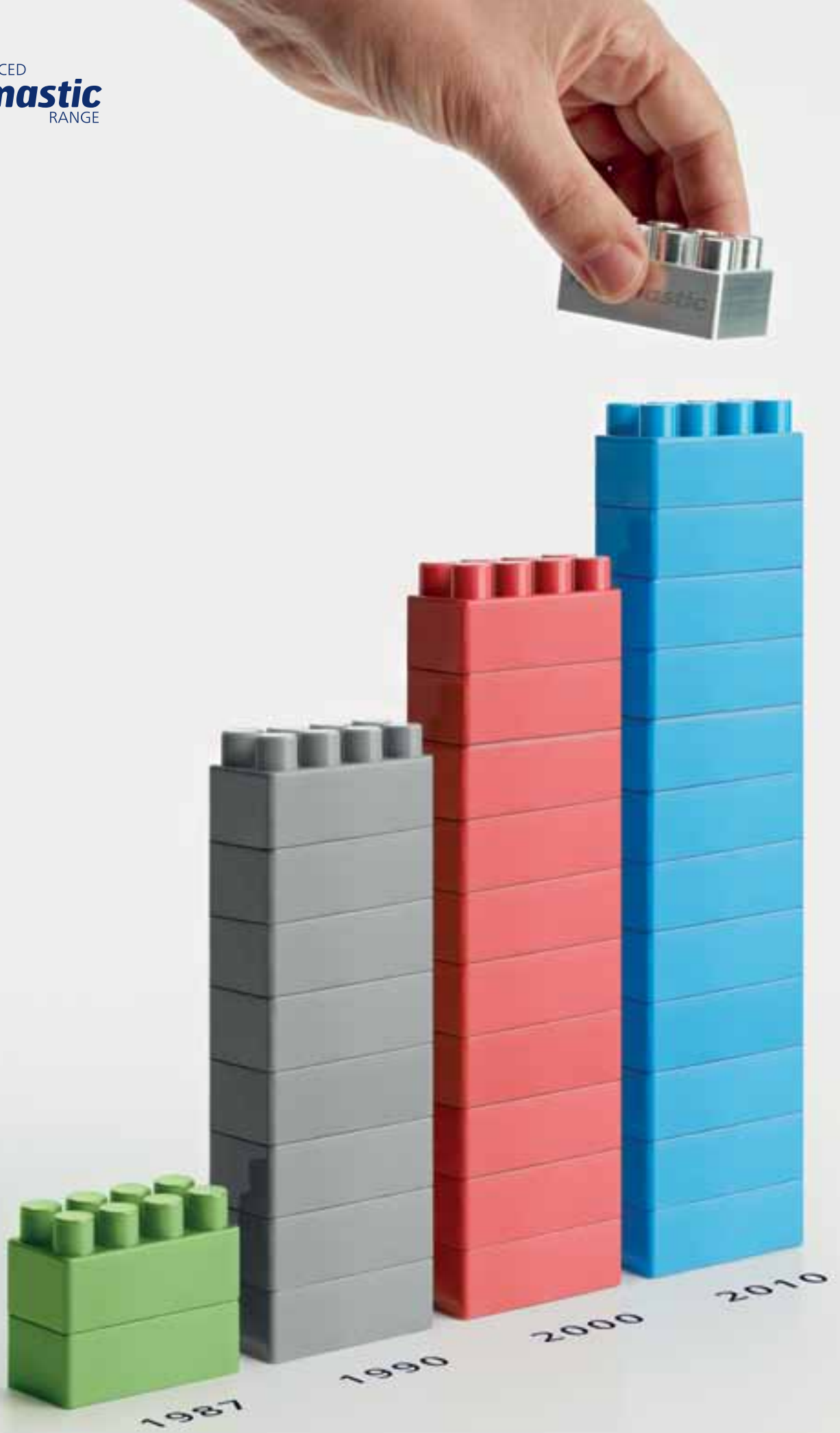
● THE SOLUTIONS BROADEN

Each product in the Jotamastic range offers specific benefits to cater for the client's exact needs. This expanded range allows anticorrosive systems to be tailor-made to meet your specific requirements for the most effective, durable and sustainable solution.

● THE PROTECTION DEEPENS

This new generation of Jotamastic products embodies Jotun's technical knowledge and long experience in solving the special challenges presented in the protection of steel substrates for repair or maintenance. High surface tolerance and wetting properties give deep penetration and thus better adhesion and durability in harsh environments, combined with a wider choice of solutions.





1.2 BILLION SQUARE METRES PROTECTED

25 YEARS' SUCCESS, DEVELOPMENT AND EXPERIENCE

The extensive range of Jotamastic coatings has been developed to provide a variety of solutions for repair and maintenance. Each product is designed to offer specific benefits. A Jotamastic anticorrosive system can be tailor-made to meet specific requirements for exposure and durability.

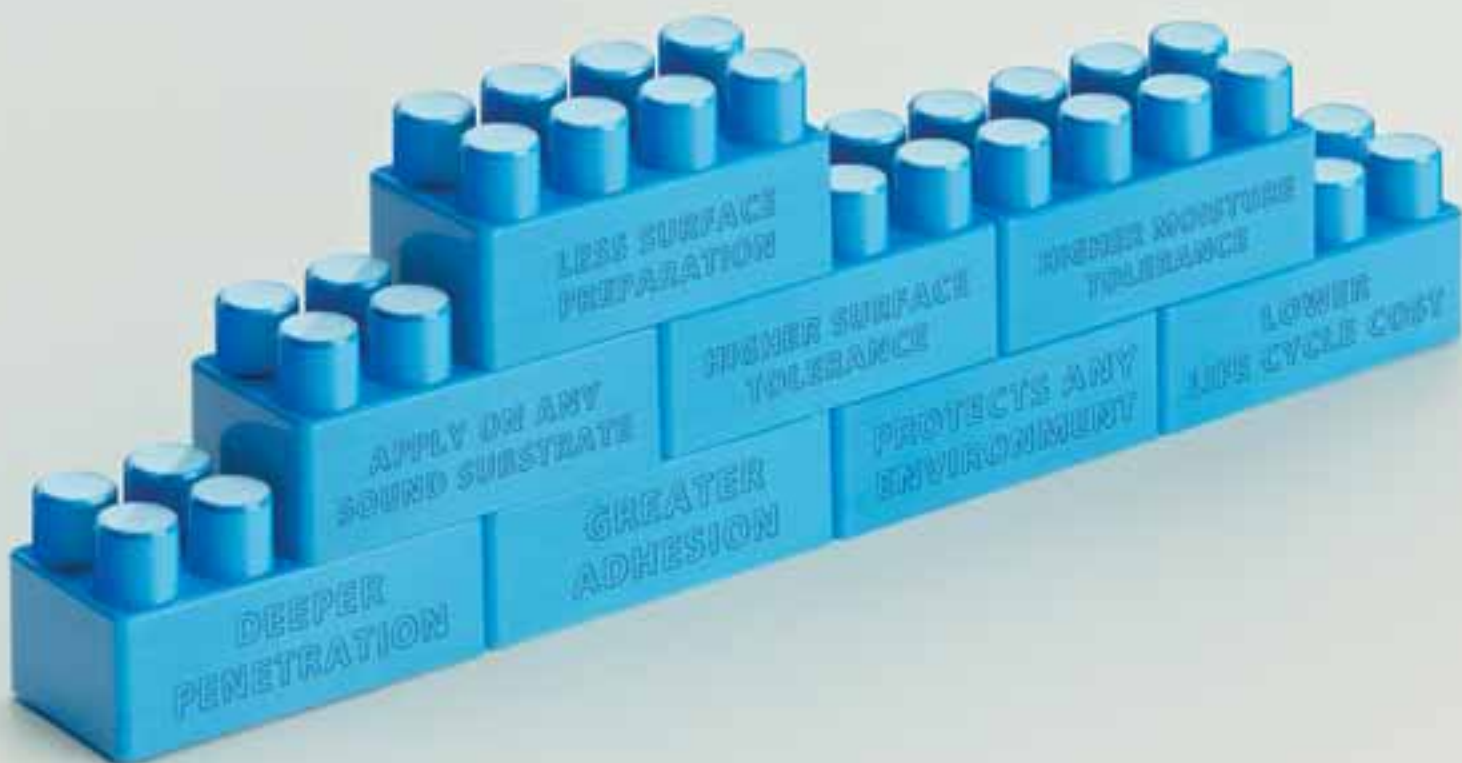
- Jotamastic requires no blast cleaning – reducing time and cost with no compromise in protection
- Jotamastic can be applied on most clean and sound surfaces – reducing downtime
- Jotamastic, the optimal solution for difficult to reach areas, where good surface preparation is not possible or desirable
- Jotamastic can be used over most generic types of coatings

The expanded Jotamastic range further enhances the opportunities to achieve even better economy and standards of corrosion protection.

Ease of use and simplicity makes Jotamastic the applicators' preferred brand.



Key benefits of Jotamastic products: apply to hand tool, power tool or waterjetting prepared surfaces, even areas that appear dry but may be moist.



MARKET LEADING FEATURES

● LOWER SURFACE PREPARATION

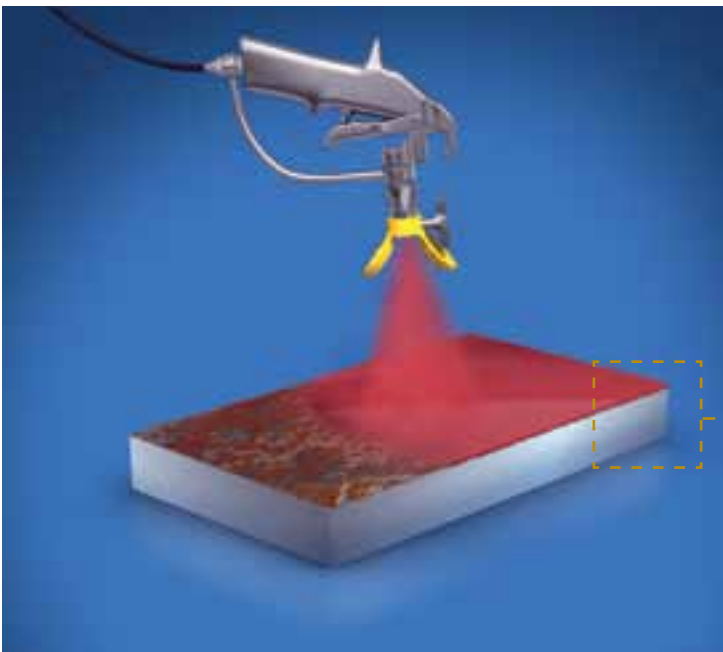
- Apply on any clean and sound substrate prepared to minimum St 2
- Apply on early flash rusting and waterjetting prepared surfaces

● SIMPLY THE BEST SURFACE TOLERANCE

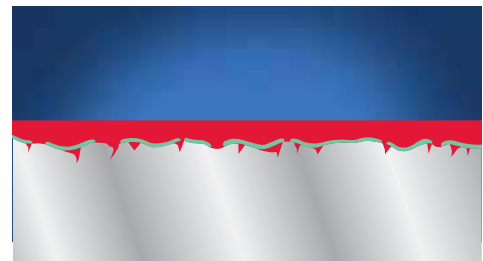
- Use of hydrocarbon resin gives excellent wetting properties ensuring good penetration into substrate
- Fast and easy application with less surface preparation

● GOOD MOISTURE TOLERANCE

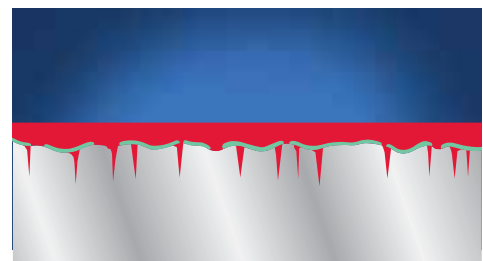
- Apply on surfaces that appear dry but where moisture remains and flash rusting has begun
- Superior barrier effect minimises permeability
- Application friendly and easy to use



1. Jotamastic is applied to an aged coating in sound condition prepared to minimum St 2 (or even moist). Waterjetting prepared surfaces with early flash rust are acceptable. Good flow properties mean a smooth, consistent protective film. Low surface tension gives excellent wetting properties.

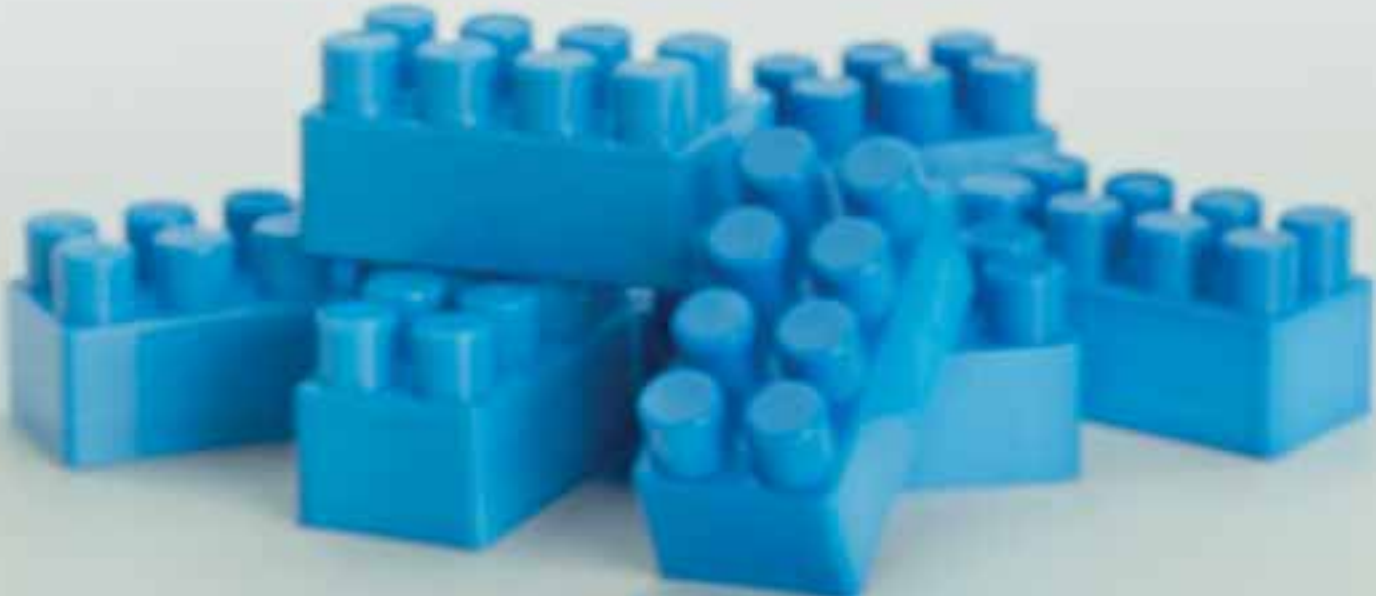


2. Enlarged section through the coated substrate shows Jotamastic penetrating down into the aged sound surface.



3. This section shows how Jotamastic, having penetrated deep into the substrate, converts from a liquid coating into a solid film.

THE ADVANCED
Jotamastic
RANGE



THE SOLUTIONS BROADEN

THE CORE PRODUCTS

Jotamastic | 90

Improved corrosion resistance

- Offers the longest lifetime in any environment
- Exceptional corrosion resistance
- Optimised rheology improves surface tolerance, flow levelling and application properties
- Excellent adhesion to most traditional and modern topcoats, including WaterFine and isocyanate free

Improved systems efficiency

- Fast drying, greatly improving efficiency
- Designed to be applied from 100 to 300 microns in a single coat
- Safe application over a wide temperature and humidity range

Increased colour flexibility

- Wide colour flexibility using Jotun's MCI system
- Colour match primer with topcoat improving coverage
- Colour availability on small orders

Additional benefits

- Can be used as finished coat in areas with low UV exposure or where colour retention is not the primary focus
- NORSOK approved
- Easy application by spray or roller

Jotamastic | 87

- For severe environments and long lifetime
- The original market leader in epoxy mastic technology
- Apply on sound surfaces prepared to St 2
- Designed to be applied from 150 to 300 microns in a single coat
- Applicator friendly and easy to use
- NORSOK approved

Jotamastic | 80

- Excellent protection in less severe environments
- Low film thickness version
- Designed to be applied from 75 to 200 microns in a single coat
- Provides all the benefits of Jotamastic products and the same excellent protection but at lower dry film thicknesses
- Jotamastic 80 is built on the same technology platform as Jotamastic 87

Jotamastic | SF

- Solvent free
- Same exceptional corrosion resistant properties for which the other Jotamastic products are well known
- Excellent edge covering properties
- Good early water resistance
- High solids content – a good solution where hot works in confined spaces are performed and where danger of explosion can be an issue

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THE SOLUTIONS BROADEN

SPECIAL USAGE PRODUCTS

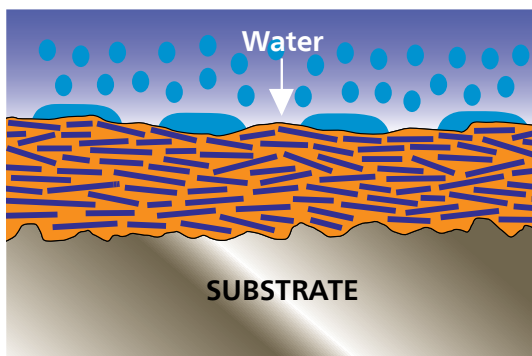
Jotamastic | 90 AL

Jotamastic | 87 AL

Jotamastic | 80 AL

EXTRA PROTECTION IN EXTREME ENVIRONMENTS

- The addition of aluminium flakes provides extreme corrosion protection and exceptional water retention
- Aluminium flakes within the coatings create an impenetrable barrier to water and increased coating flexibility. The epoxy binds the coating together to give it considerable strength, particularly when applied to vulnerable areas
- The aluminium range is particularly suited for submerged areas

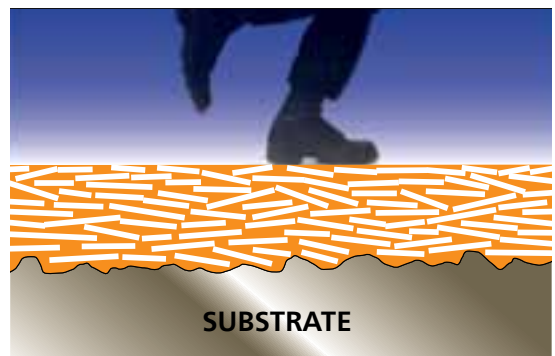


Jotamastic | 90 GF

Jotamastic | 87 GF

FOR THE TOUGHEST WEAR & TEAR SURFACES

- Glass flakes within the coating overlap, blend and bind together to provide a tough, virtually impermeable film
- A unique surface tolerant, abrasion resistant coating, containing glass flakes providing hard wearing resistance
- Specially suitable for surfaces exposed to considerable wear and tear such as high traffic areas
- Suitable for high traffic areas where speed of maintenance is essential



Jotamastic | SMARTPACK

FOR BRUSH AND ROLLER APPLICATION

- The best corrosion protection when using brush and roller
- Improved flow properties means smoother, better protective film
- Easy to handle, less storage space, reduced inventory, less waste handling
- Fast recoating from 0°C to 40°C with one curing agent



Two 5 litre tins, simply mix 1:1.

Reduce wastage by over 50% by mixing only what you need. Easy to follow visual mixing instructions are on the lids. Easy to handle.



INVEST TODAY FOR FUTURE RETURNS

REDUCED LIFE CYCLE COST

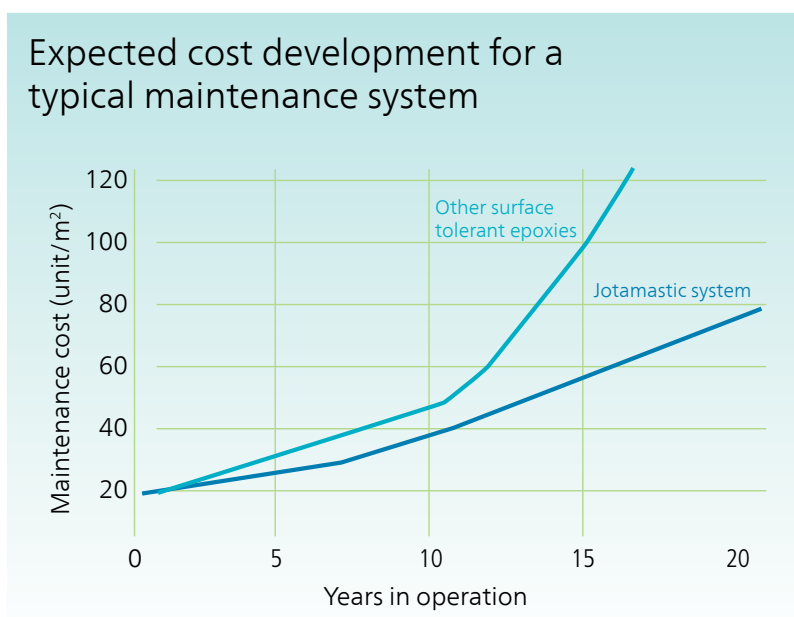
Achieve long term financial benefits

Investment in corrosion protection is about calculating the costs over the design life of the project – Life Cycle Cost analysis (LCC) – the investment in new construction today and maintenance in the future.

There are many different factors to be considered when choosing a protective paint system:

- The cost per square metre at maintenance is higher than at new construction
- Different coatings have different durability
- The longer the lifetime of a coating the greater potential for savings
- It is false economy to calculate only the cost per square metre of the paint. It is essential to take all other costs into account – surface preparation, scaffolding, application, material and other costs for the lifetime of the structure.

LCC analysis proves that specifying a Jotamastic based system produces substantial financial benefits.



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DRY DOCK

Most shipowners would prefer their vessels to spend as little time as possible in dry dock to keep costs and downtime to a minimum.

The level of surface preparation and the drying speed of the paint products chosen are two important factors that greatly affect the efficiency of a dry docking.

KEY JOTAMASTIC PRODUCTS

Jotamastic | 90

- Problem solver in all environments, offering the widest range of benefits
- Colour flexible
- Fast drying, makes two coats a day possible
- Safe overcoating on virtually any topcoat

Jotamastic | 80

- Excellent protection for shorter lifetime expectancy
- Relevant protection at the correct cost
- Excellent flow levelling at lower film thickness

AREAS	TYPICAL SYSTEMS		
	No. coats	DFT μm	
• Underwater hull	1 x 1 x	150 100	Jotamastic 90 Aluminium Safeguard Universal ES Antifouling or FRC as specified
• Topside	2 x 2 x	150 50	Jotamastic 90 Hardtop XP
• Decks	2 x 1 x	100 60	Jotamastic 80 Hardtop XP
• Superstructure	2 x 1 x	100 60	Jotamastic 80 Hardtop XP
• Cargo holds	2 x	150	Jotamastic 80*

* For cargo hold repair we recommend the use of Jotaguard 600 series, especially engineered for cargo hold protection



ON BOARD MAINTENANCE

On board maintenance is a continuous task on trading vessels in order to protect the asset. It is also necessary as class societies require the vessel to be in good shape in order for it to be allowed to trade. Today the market has become very competitive, as a result crew numbers available to undertake maintenance are reduced.

KEY JOTAMASTIC PRODUCTS

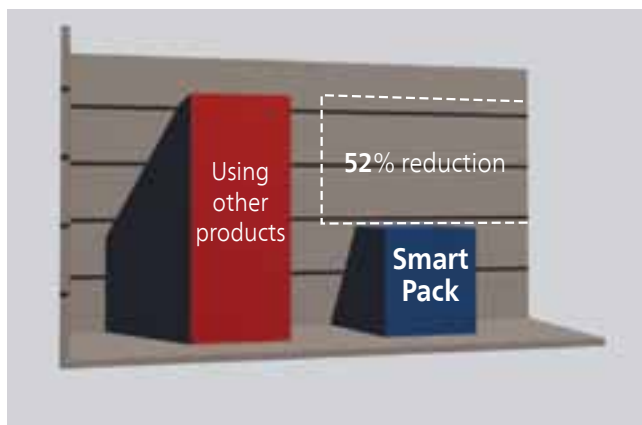
Jotamastic | 80

- Excellent protection for less severe environments
- Relevant protection at the correct cost
- Excellent flow levelling at lower film thickness

Jotamastic | SMARTPACK

- The best product for brush and roller application
- Reduce paint consumption by up to 50%
- 1:1 mixing ratio. Mix only what you need

AREAS	TYPICAL SYSTEMS		
	No. coats	DFT μm	Product
• Topside	1 x	50	Jotamastic Smart Pack, number of coats required to build 200 μm Hardtop XP
	2 x 1 x	100 60	Jotamastic 80 Hardtop XP
• Decks • Superstructure exterior	1 x	60	Jotamastic Smart Pack, number of coats required to build 200 μm Hardtop XP
	2 x 1 x	100 60	Jotamastic 80 or Jotamastic Smart Pack Hardtop XP
• Superstructure interior	1 x	100	Jotamastic 80
	1 x	60	Hardtop XP
• Cargo holds			Jotamastic Smart Pack, number of required to build 250 μm
	2 x	125	Jotamastic 80
• Water ballast tanks			Jotamastic Smart Pack Aluminium, number of coats required to build 300 μm



An analysis has been made of onboard maintenance paint consumption for the total fleet of Jotun painted vessels of comparable size and age. The data shows the heavy users* of Jotamastic Smart Pack consume 40–50% fewer litres and spend 20–30% less than those not using Jotamastic Smart Pack.

* Vessels where 50% or more of the anticorrosive paint is Jotamastic Smart Pack



Typical brush application of traditional epoxy mastic coatings (left & centre) and Jotamastic Smart Pack (right) after continuous exposure in a salt water chamber.

Rust penetration is apparent due to uneven film thickness being achieved after brush application – unlike Jotamastic Smart Pack with its superior flow characteristics achieving a consistent and correct film thickness.



UNIFORM STANDARD OF GLOBAL SERVICE

GLOBAL SERVICE

- Highest number of technical personnel in the industry
- Same high standard of trained personnel globally
- Easy to exchange trained technical personnel across national borders and multi-national projects

STANDARDISED

- Same tools, reports, procedures and behaviour world-wide.
- Same competence in maintaining company standard procedures
- Recognised globally by our yellow and red boiler suits

COATING ADVISOR ACADEMY

- Compulsory training for all technical personnel worldwide
- Theoretical and practical training, testing and examination
- FROSIO and NACE certification
- First aid and fire-fighting



TRAINED TO DELIVER THE BEST RESULT

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

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

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 0800
Fax: +86 21 6326 9686

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 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.
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, CORK
Tel: +353 214 965955
Fax: +353 214 965992

ITALY

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

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
Al Mumtaz Imp. of Paints and Equipm. Co.
P.O. Box 6850
Hail Al Andalous 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.
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 (BIIPI)
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



Jotun Protects Property