



JOTUN

JOTATEMP 650

Surface Tolerant Coating for
Corrosion Protection at Extreme Temperatures





Corrosion Under Insulation (CUI)

Corrosion behind linings is a complex subject.

By logically considering each of the issues which can be a cause of CUI, the problems in most environments can be solved with coatings. It should be remembered that CUI is often more aggressive due to the lack of ventilation and a serious, unseen microclimate.

As energy costs and environmental waste energy awareness increase the use of insulation will increase. The hazards of CUI will become more relevant in areas not seen before but the rules will still apply – know your environment.

The main causes of CUI are:

- Moisture
- Chemical constituents in the moisture
- Chlorides in the insulating material
- Temperature gradient in the steel
- Cyclic temperature and condensation (precipitation) – leading also to salts accumulation
- Lifetime expectations / inspections
- Type of insulation
- Difficult inspection

JOTATEMP 650

IDEAL FOR MAINTENANCE

- Surface tolerant
- Application up to 260°C during operating
- No special equipment required
- No special preparation required
- No shut down required when painting

Jotatemp 650 is a surface tolerant high build one component Inert Multipolymeric Matrix coating.

It is especially suited for preventing Corrosion Under Insulation during construction and shut down or low temperature periods. It provides corrosion protection of structures exposed to extreme high and/or extreme low temperatures.

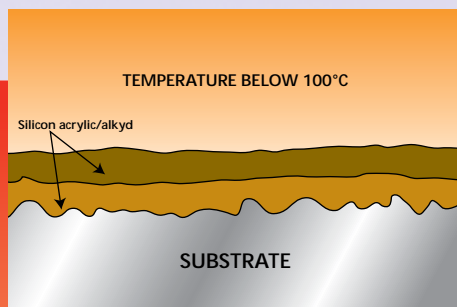
Being both surface tolerant and high build it can be used for high temperature application (hot substrates up to 260°C) meaning that maintenance can be carried out without needing to shut down the plant.

Jotatemp 650 provides corrosion protection of insulated and non-insulated carbon steel and stainless steel with dry operating surface temperatures. These can range from cryogenic to above 650°C (intermittent 720°C) and include cyclic services in temperatures between -185°C and 540°C.

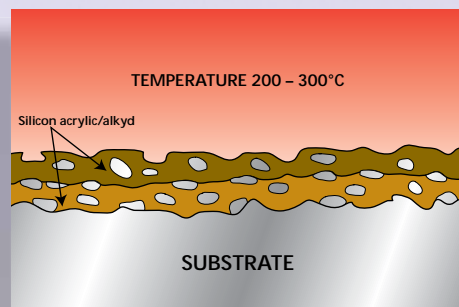
Jotatemp 650 does not contain any zinc and therefore does not have a shortened life span caused by the sacrificial effect.

NO BREAKDOWN AT EXTREME TEMPERATURES

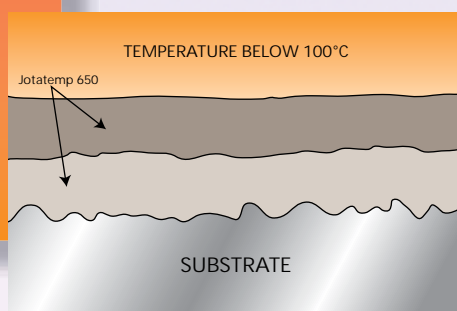
The organic elements in Jotatemp 650 do not breakdown at high heat as they do in silicon acrylics/alkyds where protection provided by the paint film is reduced – often referred to as the 'Swiss cheese effect'.



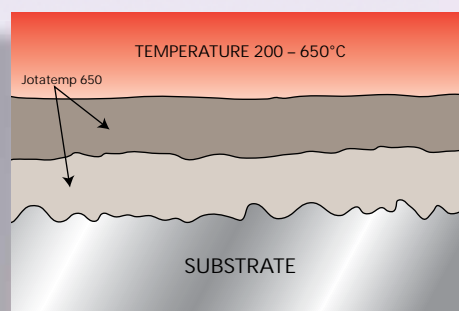
Typical silicon acrylic/alkyd coating using organic binders. Film thickness is low.



As temperature increases the organic binders begin to breakdown. At between 200–300°C the silicon binder leaves vacuoles similar to a Swiss cheese.



Jotatemp 650 is built of special inorganic binders that have organic modification thus providing excellent application and adhesion.

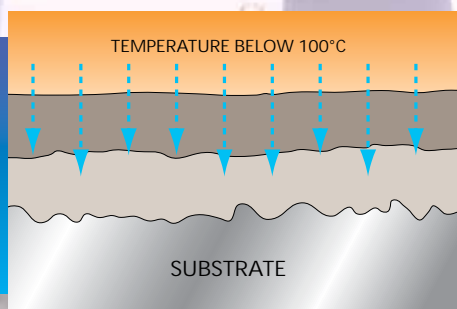


As temperature increases Jotatemp 650 provides a thick consistent barrier protecting the substrate over long periods.

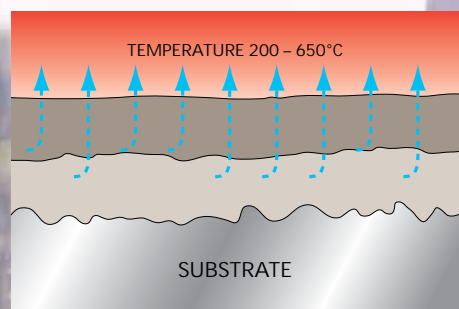


Insulation removed from a pipe originally coated with a zinc containing coating. Zinc has worked but by sacrificing, thus limiting the lifetime of the protection.

BARRIER AGAINST CORROSION



Jotatemp 650 provides a barrier to moisture during periods when temperatures are below 100°C.



As temperature increases the moisture is drawn out of the system.

Jotun worldwide

Jotun Coatings and Jotun Paints Divisions 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 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 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.
204 & 205 Ascot Centre,
Sahar Road, Andheri (East)
MUMBAI 400 099
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. Nogherra
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

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.
11&15 Sixth Lok Yang Road,
Jurong, SINGAPORE 628111
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
Amata Nakom Ind. Estate (BIPII)
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 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