

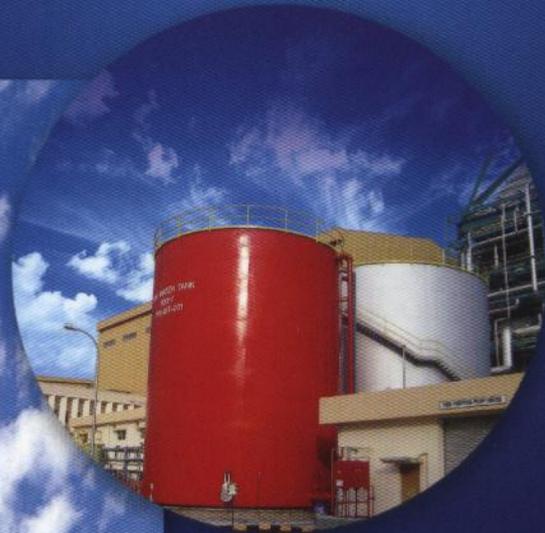
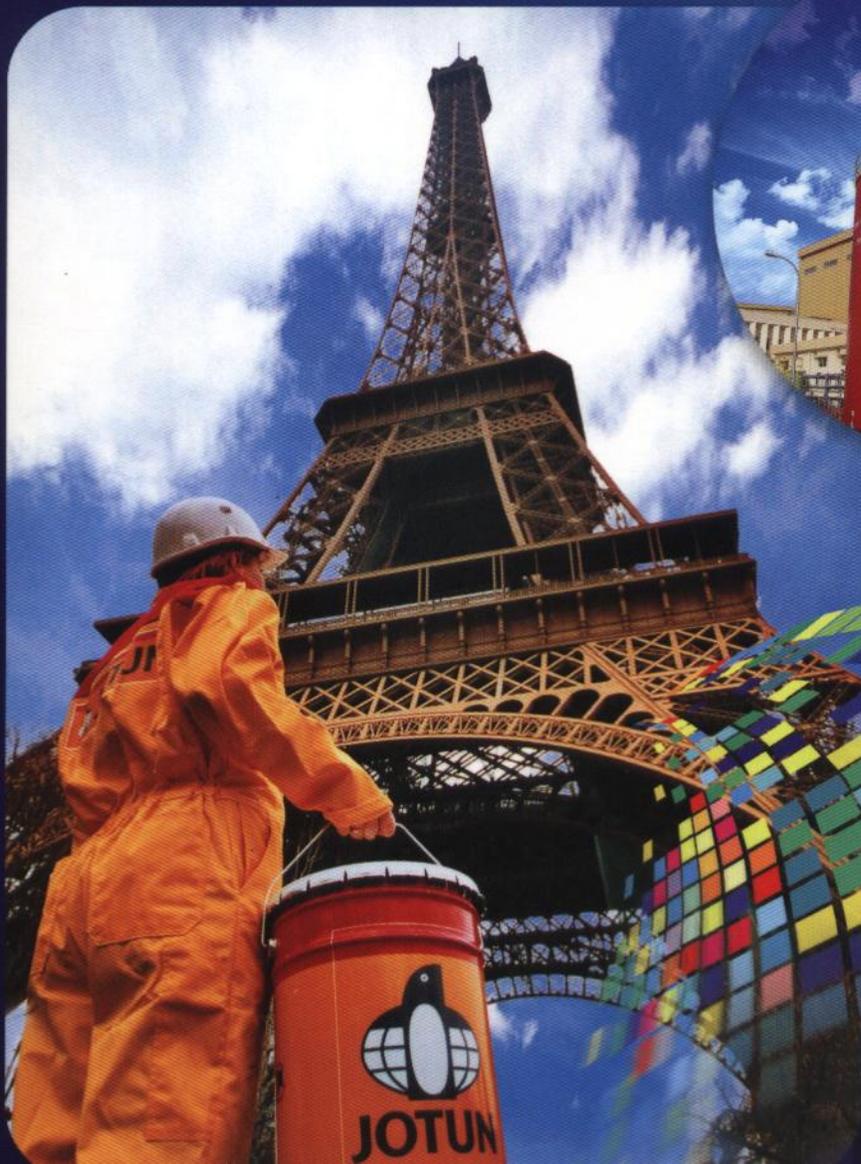


# JOTUN

Jotun Protects Property

# PROTECTIVE COATINGS

Jotun Multicolor Industry



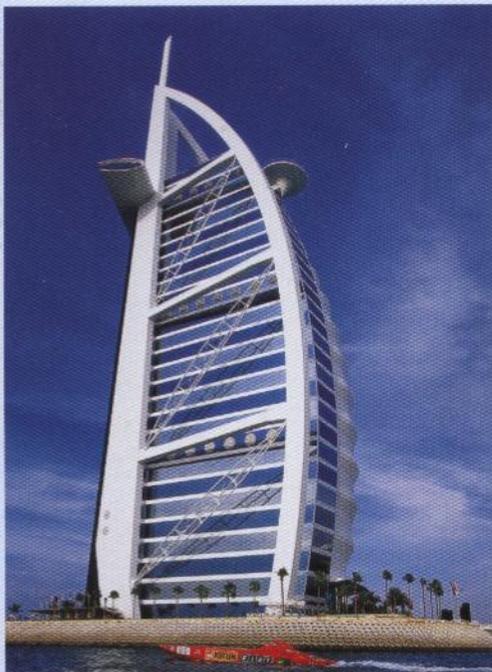
# Jotun Worldwide

Jotun is one of the world's leading paint manufacturers with origins from Norway and a history spanning over 80 years across 50 countries. Jotun's vision – "Growth and Profitability by Exceeding Customer Expectations" has won the company numerous international projects. The company has over 200 scientists formulating high quality products to meet customers' needs worldwide.

Today, Jotun in Asia Pacific has eight ISO certified paint factories producing a complete range of conventional and sophisticated coatings, including environmentally friendly products.

The Jotun brand represents quality and innovation. Jotun focuses on customers by developing skills and core competences through well-designed training and improved profitability through localization and cost optimization. The foundation of Jotun's success is "People".

Jotun Malaysia marked a new milestone on 27 May 2009 with the achievement of the ISO 14001 and OHSAS 18001 certifications.



*Burj Al Arab Hotel, Dubai*



*Offshore structure protected with Jotun Protective Coatings*

# Protective Coatings

Jotun's protective coatings provide corrosion protection and aesthetics for industrial installations against extremes of heat and cold, wind and rain, pollution, chemicals and abrasion on land and offshore.

Jotun also meets the specialized needs of industrial plants and storage tanks above and below the ground in the icy waters of the Arctic to the desert near the Equator. From bridges to power plants, food and beverage or pulp and paper industry, oil and gas industry including petro-chemical plants and refineries, waste water plants or mining industry, we fulfill the demand for tough, resilient, abrasion-resistant coatings.

Additionally, the brand is also known for its floor coatings range that protects the floor even in harsh environments. Jotafloor has been certified by an internationally recognized independent testing laboratory.



# Jotun Multicolor Industry (MCI)

Jotun Multicolor Industry is a reliable and proven computerized system providing instant colour tinting to create thousands of colours for Protective topcoats like acrylics, alkyds, epoxies, polyurethanes, waterborne acrylics and floor coatings. This service is a standard feature at all major Protective and Marine distributors to ensure fast and reliable delivery of a wide range of colours.



## Alkydprimer

Jotun Alkydprimer is an alkyd-based primer suitable for wire brushed or powertool cleaned steel surfaces for non-immersed services. It is specially formulated to be zinc chromate free in order to be environmentally friendly. It also does not pose any risk to health. Top coated with Pilot II alkyd gloss finish and MIO finish, Jotun Alkydprimer is generally used for light industrial corrosion protection.

## Red Oxide Primer QD

Red Oxide Primer QD is an alkyd based rust preventing primer, which is generally used as a quick drying primer in an alkyd system.

### Alkydprimer Standard Colours



Grey Green



Grey



Red (for Alkydprimer and Red Oxide Primer QD)

## Pilot II

Jotun Pilot II is an alkyd-based finish generally applied as a topcoat over Alkydprimer for a glossy finish. This paint system is commonly used for light industrial corrosion protection within the C2 and C3 (ISO 12944) environment. It is available in Micaceous Iron Oxide, Aluminium and solid colours.

### Pilot II MIO & Aluminium



MIO Grey



MIO Dark Grey



Aluminium

## Solvalitt High Temperature Paints

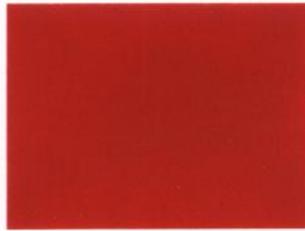
Solvalitt Midtherm is a modified silicon acrylic with temperature resistance of up to 250°C while Solvalitt Aluminium is a Silicon Aluminium paint with temperature resistance of up to 600°C. When top coated over Inorganic Zinc Silicates like Resist 78 or Resist 86, the temperature resistance will be reduced to 400°C. These products are meant for application over stacks and chimneys where blasting can be carried out.



Solvalitt Midtherm  
Aluminium (250°C)



Solvalitt Aluminium  
(600°C)



Solvalitt Bright Red  
(350°C)



Solvalitt White  
(350°C)

## Standard Colours for all Topcoats



Grey 38



Grey 71



Blue 138



Blue 139



Yellow 2



Yellow 258



Green 257



Green 7075



Orange 436



Red 49



Red 926 (RAL 3000)

- Note: i) Above colours are part of Marine and Protective Colour Card, more colours are available in Marine and Protective Colour Card  
ii) Special and tailor-made colours can be produced by the MCI tinting machine

## Jota-Etch Two Pack : Epoxy Etching Primer

Jota-etch is an epoxy modified etching primer for direct application over aluminium, galvanized steel, mild steel and stainless steel as an adhesion enhancing primer for alkyd, acrylic, epoxy and polyurethane topcoats. Refer to the paint system for thickness recommendation.

## Jotaguard 82 : General Purpose Epoxy

Jotaguard 82 is a general purpose epoxy recommended for steel structures exposed to the atmospheric environment. It is an economical alternative to the current alkyd paint system as Jotaguard 82 will outperform the conventional alkyd system with minimum increase in cost. It can also be used alone or in combination with epoxy, polyurethane and alkyd topcoats.

## Jotamastic 80 : Surface Tolerant High Performance Epoxy Coating

Jotamastic 80 is a surface tolerant epoxy coating with excellent penetration and adhesion over both powertool and blast cleaned steel surfaces. It can be used as primer, undercoat as well as topcoat for areas where aesthetic value is not important. For underwater services, the aluminium version is required as primer. It can be topcoated with a Penguard Topcoat epoxy gloss finish or Hardtop As/Hardtop XP aliphatic polyurethane to create a better gloss finish for above water exposure.

## Penguard Topcoat : Epoxy Gloss Finish

Penguard Topcoat is commonly used over epoxy primer or undercoat to improve corrosion protection, gloss level and aesthetic value. It is common practice to use epoxy for areas not exposed to ultra-violet rays or weathering due to the natural chalking characteristic of all epoxies.

## Hardtop AS / Hardtop XP : Aliphatic Polyurethane Finish

Due to its excellent chemical resistance, weathering and gloss retention properties, Hardtop AS/Hardtop XP is widely used as topcoat over epoxies to improve durability of a painting system. Its usage has been especially wide in oil and gas industries, heavy industries, power plants and infrastructure projects. Hardtop AS/Hardtop XP is also commonly applied in other areas (including residential areas) where high performance is required.

## Tankguard HB : Amine Adduct Epoxy for Tankage

Tankguard HB is an amine adduct epoxy formulated for fresh water, seawater, palm oil and numerous other types of tank interiors, it is also certified for portable water storage. For better chemical and high-temperature resistance, use Tankguard Storage or Tankguard Special Ultra Phenolic Epoxy. Contact Jotun for more details.

## Jotafloor Range of Products : Floor Painting

Jotafloor Sealer, Jotafloor Topcoats & Jotafloor Rapid Dry are commonly used for light duty flooring where cleanliness and aesthetic value is important. A full range of colours is available with the MCI tinting machine.



Paint System	Coats	Products	DFT (μ)	Generic Type	Surface Preparation	Recommended areas of Application	Expected Life Span (years)	Remarks
JPCS 1	1st 2nd 3rd	Alkyd Primer / Red Oxide Primer QD Pilot II Pilot II	40 40 40	Alkyd Primer Alkyd Gloss Alkyd Gloss	St 3 or Sa 2 1/2	Steel Exposed to Mild Environment	5-10	Alkyd Primer does not contain zinc chromate or red lead which is health hazardous. Better surface preparation will ensure better performance.
JPCS 2	1st 2nd 3rd or 3rd	Jotaguard 82 Jotaguard 82 Penguard Topcoat Hardtop AS / Hardtop XP	100 100 50 50	General Purpose Epoxy General Purpose Epoxy Epoxy Gloss Topcoat Aliphatic Polyurethane	St 3 or Sa 2 1/2	For steelwork exposed to mild and moderate corrosivity environment	8-12	It is a natural characteristic for Penguard Topcoat epoxy gloss to chalk when exposed to ultra-violet, Hardtop AS/Hardtop XP should be adopted for better weathering resistance.
JPCS 3	1st 2nd 3rd	Jotaguard 82 Plot II Plot II	100 40 40	General Purpose Epoxy Alkyd Gloss Finish Alkyd Gloss Finish	St 3 or Sa 2 1/2	For steelwork exposed to mild and moderate corrosivity environment	8-10	Topcoating Jotaguard 82 with Pilot II will help to improve weathering resistance of the system, however chemical resistance of the system depends largely on Jotaguard 82
JPCS 4	1st 2nd 3rd or 3rd	Jotamastic 80 Jotamastic 80 Penguard Topcoat Hardtop AS / Hardtop XP	75 75 50 50	Surface Tolerant Epoxy Surface Tolerant Epoxy Epoxy Gloss Topcoat Aliphatic Polyurethane	St 3 or Sa 2 1/2	Steel Exposed to Mild and Moderate Corrosivity Environment	8-12	It is a natural characteristic for Penguard Topcoat epoxy gloss to chalk when exposed to UV, Hardtop AS/Hardtop XP should be adopted for better weathering resistance.
JPCS 5	1st 2nd 3rd or 3rd	Barrier ZP / Barrier 77 Penguard Express Penguard Topcoat Hardtop AS / Hardtop XP	65 125 50 50	Epoxy Zinc Primer Fast Drying Epoxy Epoxy Gloss Topcoat Aliphatic Polyurethane	Sa 2 1/2	Moderate to High Corrosivity Environment	10-15	Zinc based coating are not recommended for high alkaline and acidic environment as these may further speed up failure of reactivity of zinc.
JPCS 6	1st 2nd 3rd	JotaEtch Pilot II Pilot II	10 40 40	Modified Epoxy Etch Primer Alkyd Gloss Alkyd Gloss	Contaminant Free	Galvanised, Stainless steel, Aluminium & Mild steel	5-10	Thickness of JotaEtch shall be maintained at 10-15 microns to avoid failure.
JPCS 7	1st 2nd 3rd	JotaEtch Penguard Express Hardtop AS / Hardtop XP	10 75 50	Modified Epoxy Etch Primer Fast Drying Epoxy Aliphatic Polyurethane	Contaminant Free	Galvanised, Stainless steel, Aluminium & Mild steel	8-10	Thickness of JotaEtch shall be maintained at 10-15 microns to avoid failure.
JPCS 8	1st 2nd	Tankguard HB Tankguard HB	150 150	Amine Adduct Epoxy Amine Adduct Epoxy	Sa 2 1/2	Water, Refined & Crude Palm Oil Tank Interior	10-12	For more details on chemical resistance please refer to Jotun.
JPCS 9	1st 2nd 3rd or 1st 2nd	Resist 78 Solvalitt Aluminium Solvalitt Aluminium Solvalitt Aluminium Resist 78 Solvalitt Midtherm	75 25 25 75 30	Inorganic Zinc Silicate Silicone Aluminium Silicone Aluminium Inorganic Zinc Silicate Silicone Acrylics	Sa 2 1/2	Steel Operating between 120°C - 400°C  Steel Operating up to 250°C	8-10	Solvalitt is also available in Red and White but temperature resist is up to 350°C only.  Solvalitt Midtherm is also available in White Note: The function of Inorganic Zinc Primer is to improve Corrosion Protection
JPCS 10	1st 2nd or 1st 2nd	Solvalitt Aluminium Solvalitt Aluminium Solvalitt Aluminium Solvalitt Midtherm Solvalitt Midtherm	25 25 30 30	Silicone Aluminium Silicone Aluminium Silicone Acrylics Silicone Acrylics	Sa 2 1/2	Steel Surface Operating above 400°C - 600°C  Steel Operating up to 250°C Steel Operating up to 250°C	5-8	High temperature paint on its own generally do not have good corrosion protection property and will normally have a shorter life span compared to the system which uses an Inorganic Zinc Silicate Primer as the 1st coat.

Note: Paint system performance depends on the degree of surface preparation, better surface preparation will ensure better performance.

Jotun Protects Property

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