



JOTUN

Network Rail & Highways

Approved Systems Overview



Global info



The Jotun Group is one of the world's leading manufacturers of paints 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

1000+
SKILLED COATING ADVISORS
UNIFORM STANDARD
WORLDWIDE

40
PRODUCTION
FACILITIES

64
COMPANIES

Jotun UK at a glance

- Jotun has been established in the UK since 1967 and currently has a workforce of 240 people.
- Our manufacturing facility in Flixborough, Lincolnshire, est. 1989, has an annual production capacity of 30 million litres of coatings. The factory is ISO 9001 accredited, ISO 14001 compliant for its environmental management and ISO 45001 certified.
- We constantly invest in development, the most recent being a £4.5m Fire Protection R&D Centre which opened in 2017.
- We produce 24 million Litres of Marine and Protective Coatings annually and are the definitive market leaders in the Marine sector.
- We support a local Hospice in Lincolnshire with donations and products and run General Sponsorship programmes all over the country.
- All our technical and sales staff are trained to a high standard and always ready to offer support, making it easier to provide trained personnel across multi-national projects.
- With more than 770 FROSIO and/or NACE certified employees globally, Jotun is also one of the few authorised training bodies conducting training courses leading to certification by FROSIO.



Jotun Factory & PFP Lab - Flixborough, UK

Highways



Jotun offer a wide range of approved coatings in line with Highways England's stringent criteria and approved by the British Board of Agrément.

Our coatings combine the latest technology whilst still meeting the Highways England product requirements to offer practical solutions to both new construction (Series 1900) and Maintenance (series 5000) projects.

SHW Series 1900

Type I		
	Coats	Item No.
Coat 1:	Barrier 80	109
Coat 2:	Penguard Express B12	112
Coat 3:	Hardtop XP*	168

* Other top coats available: Hardtop CA (item 167), HB (item 169), Optima (item 185)

Type I		
	Coats	Item No.
Coat 1:	Penguard Express B11	111
Coat 2:	Penguard Express B12	112
Coat 3:	Hardtop XP*	168

* Other top coats available: Hardtop CA (item 167), HB (item 169), Optima (item 185)

Type II		
	Coats	Item No.
Coat 1:	Barrier 80	109
Coat 2:	Penguard Express B12	112
Coat 3:	Penguard Express B12	112
Coat 4:	Hardtop XP*	168

* Other top coats available: Hardtop CA (item 167), HB (item 169), Optima (item 185)

Type II		
	Coats	Item No.
Coat 1:	Penguard Special B10	110
Coat 2:	Penguard Pro GF	123
Coat 3:	Hardtop XP*	168

* Other top coats available: Hardtop CA (item 167), HB (item 169), Optima (item 185)

Type II		
	Coats	Item No.
Coat 1:	Penguard Special B10	110
Coat 2:	Penguard Express B12	112
Coat 3:	Penguard Express B12	112
Coat 4:	Hardtop XP*	168

* Other top coats available: Hardtop CA (item 167), HB (item 169), Optima (item 185)

Type II		
	Coats	Item No.
Coat 1:	Penguard Express B11	111
Coat 2:	Penguard Express B12	112
Coat 3:	Penguard Express B12	112
Coat 4:	Hardtop XP*	168

* Other top coats available: Hardtop CA (item 167), HB (item 169), Optima (item 185)

Type III Box girders		
	Coats	Item No.
Coat 1:	Barrier 80	109
Coat 2:	Penguard Express B12	112

Type III Box girders (area: B)		
	Coats	Item No.
Coat 1:	Penguard Express B11	111
Coat 2:	Penguard Express B12	112

Type III Box girders (area: B)		
	Coats	Item No.
Coat 1:	Jotamastic SF	117
Coat 2:	Jotamastic SF	117

Type V Aluminium Metal Spray (area: A and D)		
	Coats	Item No.
Coat 1:	Penguard Special B10	110
Coat 2:	Penguard Express B11	111
Coat 3:	Penguard Express B12	112
Coat 4:	Hardtop XP	168

Type V (area: B)		
	Coats	Item No.
Coat 1:	Penguard Express B12	112

Type A2b Aluminium Metal Spray (area: External)		
	Coats	Item No.
Coat 1:	Penguard Special B10	110
Coat 2:	Penguard Express B12	112
Coat 3:	Hardtop XP**	168

** for a non cosmetic finish a second coat of Penguard Express B12 (Item 112) can be used



The Mersey Gateway Bridge

SHW Series 5000

Type I ^[M] Steel		
	Coats	Item No.
Coat 1:	Jotamastic 90 B15	115
Coat 2:	Jotamastic 90 B16	116
Coat 3:	Hardtop XP*	168

* Other top coats available: Hardtop CA (item 167), HB (item 169), Optima (item 185)

Type I ^[M]		
	Coats	Item No.
Coat 1:	Jotamastic 90 B15	115
Coat 2:	Penguard Express B12	112
Coat 3:	Hardtop XP*	168

* Other top coats available: Hardtop CA (item 167), HB (item 169), Optima (item 185)

Type I ^[M] Aluminium / Zinc Metal Spray		
	Coats	Item No.
Coat 1:	Jotamastic 90 B15	115
Coat 2:	Jotamastic 90 B16	116
Coat 3:	Hardtop XP*	168

* Other top coats available: Hardtop CA (item 167), HB (item 169), Optima (item 185)

Box girders (area B)		
	Coats	Item No.
Coat 1:	Jotamastic SF	117
Coat 2:	Jotamastic SF	117



M5 motorway gantry courtesy of NuSteel Structures

Network Rail



Jotun supply long lasting anticorrosive protective coatings for steel structures for Network Rail. From our approved coating systems you can expect longevity in performance and aesthetics, with options for innovative systems to reduced maintenance programs, all supported by a multi-skilled technical service team covering the UK & Ireland.



Ouseburn Viaduct, Newcastle upon Tyne, UK

N1 - Thermally Sprayed Aluminium

Coats	DFT (µm)	Certificate No.
Coat 1: Penguard Tiecoat 100 Coat 2: Penguard Express Coat 3: Hardtop XP	30 150 50	N1-075
Coat 1: Penguard Tiecoat 100 Coat 2: Penguard HSP ZP Coat 3: Hardtop CA / Optima / XP	30 150 50	N1-115

N9 - Galvanised - Sweep blast clean

Coats	DFT (µm)	Certificate No.
Coat 1: Jotamastic 80 Alu Coat 2: Jotamastic 80 Colour Coat 3: Hardtop XP	100 100 50	N9-069
Coat 1: Penguard Express MIO Coat 2: Hardtop XP / CA / Optima	125 50	N9-065
Coat 1: Penguard Express MIO Coat 2: Hardtop HB	125 50	N9-066

M20 - Epoxy - Sa2.5

Coats	DFT (µm)	Certificate No.
Coat 1: Jotamastic 80 Alu Coat 2: Jotamastic 80 Colour Coat 3: Hardtop HB / XP	100 100 50	M20-148
Coat 1: Penguard HSP ZP Coat 2: Penguard Express MIO Coat 3: Hardtop Optima / CA / XP / Flexi	100 100 50	M20-166
Coat 1: Jotamastic 90 Alu Coat 2: Jotamastic 90 Colour Coat 3: Hardtop Optima / CA / XP	75 125 50	M20-168

M24 - Patch repair for aged alkyd - Sa2.5 & St3

Coats	DFT (µm)	Certificate No.
Coat 1: Jotamastic 87 GF Coat 2: Hardtop XP	250 50	M24-145
Coat 1: Jotamastic 90 Coat 2: Hardtop CA / Optima	250 50	M24-169
Coat 1: Jotamastic 80 Alu Coat 2: Jotamastic 80 Colour Coat 3: Hardtop XP / HB / Flexi	100 100 50	M24-211 (Sa2.5) M24-212 (St3)
Coat 1: Jotamastic 90 Alu Coat 2: Jotamastic 90 Colour Coat 3: Hardtop CA / Optima / XP	75 125 50	M24-170

N2 - Glass flake Epoxy - Sa2.5

Coats	DFT (µm)	Certificate No.
Coat 1: Penguard Express ZP Coat 2: Jotamastic 87 GF Coat 3: Hardtop HB / Flexi / XP	75 300 50	N2-216
Coat 1: Penguard Express B10 Coat 2: Penguard Pro GF Coat 3: Hardtop XP	25 400 50	N2-042
Coat 1: Jotamastic 87 GF Coat 2: Hardtop XP	250 50	N2-214
Coat 1: Penguard HSP ZP Coat 2: Marathon Coat 3: Hardtop CA / Optima	125 300 50	N2-089

N13 - Epoxy for Internal Environment - Sa2.5

Coats	DFT (µm)	Certificate No.
Coat 1: Penguard HSP ZP Coat 2: Penguard Express MIO Coat 3: Hardtop CA / Optima	100 100 50	N13-091
Coat 1: Penguard Express ZP Coat 2: Penguard Express MIO Coat 3: Hardtop XP	125 125 50	N13-016

M21 - Epoxy Glass Flake - Sa2.5

Coats	DFT (µm)	Certificate No.
Coat 1: Penguard Express ZP Coat 2: Jotamastic 87 GF Coat 3: Hardtop Flexi / HB / XP	75 300 50	M21-208
Coat 1: Penguard Express B10 Coat 2: Penguard Pro GF Coat 3: Hardtop XP	25 400 50	M21-038
Coat 1: Jotamastic 87 GF Coat 2: Hardtop XP	250 50	M21-206
Coat 1: Penguard HSP ZP Coat 2: Marathon Coat 3: Hardtop CA / Optima	125 300 50	M21-167

M34 - Short Possessions - Sa2.5 & St3

Coats	DFT (µm)	Certificate No.
Coat 1: Jotamastic 87 GF Coat 2: Hardtop XP / Flexi / HB	250 50	M34-210
Coat 1: Jotamastic 90 Coat 2: Hardtop CA / Optima	250 50	M34-209

N4 - MIO System - Sa2.5

Coats	DFT (µm)	Certificate No.
Coat 1: Penguard HSP ZP Coat 2: Penguard Express MIO Coat 3: Hardtop CA / Optima	100 100 50	N4-090
Coat 1: Penguard Express ZP Coat 2: Penguard Express MIO Coat 3: Hardtop Flexi	125 125 50	XM90-84
Coat 1: Penguard Express ZP Coat 2: Penguard Express MIO Coat 3: Hardtop XP	125 125 50	XM90-85

An approved topcoat may substitute another approved topcoat, provided it is tested on the same intermediate coating in a different system.

Hardtop

	XP	HB	Flexi	CA	Optima
Jotamastic 80 Colour	✓	✓	✓		
Jotamastic 87 Alu	✓				
Jotamastic 87 GF	✓	✓	✓		
Jotamastic 90 Colour	✓			✓	✓
Jotamastic 90 B16	✓				
Penguard Pro GF	✓				
Penguard Express MIO	✓	✓	✓	✓	✓
Penguard Express	✓				
Penguard HSP ZP	✓			✓	✓



Rochester Bridge

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Jotun Protects Property