

Hardtop Flexi Alu

Product description

This is a two component chemically curing aliphatic acrylic polyurethane coating. It has an aluminium sheen finish with very good gloss retention. It is a high build, aluminium pigmented product. It is fast drying. It can be used direct to metal. The coating is highly flexible, impact resistant and has excellent adhesion. To be used as topcoat in atmospheric environments.

Typical use

Marine:

Recommended for topside, container deck and superstructure.

Protective:

Recommended for offshore environments, refineries, power plants, bridges and buildings. Suitable for a wide range of industrial structures.

Other variants available

Hardtop Flexi Refer to separate TDS for each variant.

Colours

RAL 9006

Product data

Property	Test/Standard	De	scription
Solids by volume	ISO 3233		54 ± 2 %
Gloss level (GU 60 °)	ISO 2813	semi g	gloss (35-70)
Flash point	ISO 3679 Method 1		28 °C
Density	calculated		1.1 kg/l
Region	Regulation	Test Standard	VOC Value
US	CARB(SCM)2020 / SCAQMD rule 1113	Calculated	414 g/l
Hong Kong	Air Pollution Control (VOC) Regulation	Calculated	414 g/l
EU	European Paint Directive 2004/42/CE	Calculated	414 g/l
EU IED	Industrial Emission Directive 2010/75/EU	Calculated	414 g/l
Korea	Korea Clean Air Conservation Act	Calculated	414 g/l

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The provided data is typical for factory produced products, subject to slight variation depending on colour. Gloss description: According to Jotun Performance Coatings' definition.

Technology limitations make exact colour match of metallic finishes not possible. Variations depending on differences in application methods, DFT, temperature, humidity and substrate must be expected.

Film thickness per coat

Typical recommended specification range

Dry film thickness	50	-	110	μm
Wet film thickness	90	-	200	μm
Theoretical spreading rate	10.8	-	4.9	m²/l

Surface preparation

Surface preparation summary table

Surface preparation		preparation
Substrate	Minimum	Recommended
Carbon steel	St 2 (ISO 8501-1)	Sa 2½ (ISO 8501-1)
Stainless steel	The surface shall be hand or machine abraded with non-metallic abrasives or bonded fibre machine or hand abrasive pads to impart a scratch pattern to the surface.	Abrasive blast cleaning to achieve a surface profile using non-metallic abrasive media which is suitable to achieve a sharp and angular surface profile.
Aluminium	The surface shall be hand or machine abraded with non-metallic abrasives or bonded fibre machine or hand abrasive pads to impart a scratch pattern to the surface.	Abrasive blast cleaning to achieve a surface profile using non-metallic abrasive media which is suitable to achieve a sharp and angular surface profile.
Galvanised steel	The surface shall be clean, dry and appear with a rough and dull profile.	Sweep blast-cleaning using non- metallic abrasive leaving a clean, rough and even pattern.
Coated surfaces	Clean, dry and undamaged compatible coating	Clean, dry and undamaged compatible coating

Application

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Application methods

The product can be applied by		
Spray:	Use airless spray or conventional spray.	
Brush:	May be used. Care must be taken to achieve the specified dry film thickness.	

Product mixing ratio (by volume)

Hardtop Flexi Alu Comp A	4 part(s)
Hardtop Flexi Comp B	1 part(s)

Thinner/Cleaning solvent

Thinner: Jotun Thinner No. 10

Guiding data for airless spray

Guiding data for air spray	
Pressure at nozzle (minimum):	150 bar/2100 psi
Nozzle tip (inch/1000):	13-17

Nozzle tip:	HVLP: 13-21 (inch/1000) / Pressure pot: 1.3-2.1 (mm)
Pressure at nozzle (minimum):	HVLP: 2.4 bar/34 psi / Pressure pot: 2.4 bar/34 psi

Drying and Curing time

Substrate temperature	5 °C	10 °C	23 °C	40 °C
Surface (touch) dry	6 h	3 h	1.5 h	1 h
Walk-on-dry	16 h	8 h	4 h	2 h
Dry to over coat, minimum	22 h	17 h	6 h	2 h
Dried/cured for service	15 d	10 d	7 d	4 d

For maximum overcoating intervals, refer to the Application Guide (AG) for this product.

Drying and curing times are determined under controlled temperatures and relative humidity below 85 %, and at average of the DFT range for the product.

Surface (touch) dry: The state of drying when slight pressure with a finger does not leave an imprint or reveal tackiness.

Walk-on-dry: Minimum time before the coating can tolerate normal foot traffic without permanent marks, imprints or other physical damage.

Dry to over coat, minimum: The recommended shortest time before the next coat can be applied.

Dried/cured for service: Minimum time before the coating can be permanently exposed to the intended environment/medium.

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Induction time and Pot life

Paint temperature	23 °C
Pot life	2 h

Heat resistance

	Temperature		
	Continuous	Peak	
Dry, atmospheric	120 °C	140 °C	

Resistant to spills of most oils, aliphatic petroleum products and non aggressive chemicals.

Peak temperature duration max. 1 hour.

The temperatures listed relate to retention of protective properties. Aesthetic properties may suffer at these temperatures.

Product compatibility

Depending on the actual exposure of the coating system, various primers and topcoats can be used in combination with this product. Some examples are shown below. Contact Jotun for specific system recommendation.

Previous coat:

epoxy, zinc epoxy, epoxy mastic, polyurethane

Packaging (typical)

	Volume	Size of containers	
	(litres)	(litres)	
Hardtop Flexi Alu Comp A	4/16	5/20	
Hardtop Flexi Comp B	1/4	1/5	

The volume stated is for factory made colours. Note that local variants in pack size and filled volumes can vary due to local regulations.

Storage

The product must be stored in accordance with national regulations. Keep the containers in a dry, shaded, cool, well-ventilated space and away from sources of heat and ignition. Containers must be kept tightly closed. Handle with care.

Shelf life at 23 °C

Hardtop Flexi Alu Comp A	24 month(s)
Hardtop Flexi Comp B	48 month(s)

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In some markets commercial shelf life can be dictated shorter by local legislation. The above is minimum shelf life, thereafter the paint quality is subject to re-inspection.

Caution

This product is for professional use only. The applicators and operators shall be trained, experienced and have the capability and equipment to mix/stir and apply the coatings correctly and according to Jotun's technical documentation. Applicators and operators shall use appropriate personal protection equipment when using this product. This guideline is given based on the current knowledge of the product. Any suggested deviation to suit the site conditions shall be forwarded to the responsible Jotun representative for approval before commencing the work.

Health and safety

Please observe the precautionary notices displayed on the container. Use under well ventilated conditions. Do not inhale spray mist. Avoid skin contact. Spillage on the skin should immediately be removed with suitable cleanser, soap and water. Eyes should be well flushed with water and medical attention sought immediately.

Colour variation

When applicable, products primarily meant for use as primers or antifoulings may have slight colour variations from batch to batch. Such products and epoxy based products used as a finish coat may chalk when exposed to sunlight and weathering.

Colour and gloss retention on topcoats/finish coats may vary depending on type of colour, exposure environment such as temperature, UV intensity etc., application quality and generic type of paint. Contact your local Jotun office for further information.

Disclaimer

The information in this document is given to the best of Jotun's knowledge, based on laboratory testing and practical experience. Jotun's products are considered as semi-finished goods and as such, products are often used under conditions beyond Jotun's control. Jotun cannot guarantee anything but the quality of the product itself. Minor product variations may be implemented in order to comply with local requirements. Jotun reserves the right to change the given data without further notice.

Users should always consult Jotun for specific guidance on the general suitability of this product for their needs and specific application practices.

If there is any inconsistency between different language issues of this document, the English (United Kingdom) version will prevail.

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