

Technical Data Sheet



Jota Armour

Product description

This is a three component abrasion resistant polyamine cured epoxy coating. Specially designed as an anti-skid coating. Suitable for approved primers or directly on concrete substrates.

Typical use

Can be used on helidecks, walkways, ramps, weigh bridge decks, decks in general where abrasion resistance and non-slip properties are required.

Approvals and certificates

Approved to UK Defence Standard 80-134/1 for the Royal Navy, flight decks, hangar decks and weather decks. Pre-qualification testing in accordance with NORSOK M-501, Rev. 5, System 4, suitable for decks and walkways. Additional certificates and approvals may be available on request.

Colours

grey 038, green 137, BS 640, green 135

Product data

Property	Test/Standard	Description
STANDARD GRADE		
Solids by volume	ISO 3233	90 ± 2 %
Gloss level (60 °)	ISO 2813	semi gloss (35-70)
Flash point	ISO 3679 Method 1	35 °C
Specific gravity	calculated	1,43 kg/l
VOC-Solvent Emission Directive	SED (1999/13/EC)	161 g/kg
WINTER GRADE		
Solids by volume	ISO 3233	84 ± 2 %
Flash point	ISO 3679 Method 1	31 °C
VOC-Solvent Emission Directive	SED (1999/13/EC)	188 g/kg

The provided data is typical for factory produced products, subject to slight variation depending on colour.

All data is valid for mixed paint.

Gloss level: According to Jotun Performance Coatings' definition.

Recommended film thickness per coat

Film thickness and spreading rate	Dry film thickness (µm)	Wet film thickness (µm)	Theoretical spreading rate (m ² /l)
STANDARD GRADE			
Minimum	750	830	1,2

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Maximum	3000	3330	0,3
Typical	1000	1100	0,9
WINTER GRADE			
Minimum	750	890	1,1
Maximum	3000	3570	0,3
Typical	1000	1190	0,9

Anti-slip roughness profile of coating limits accuracy on film thickness measurements. Approximate spreading rate for 1000 µm dry film is 10 m²/kit from practical testing.

Surface preparation

To secure lasting adhesion to the subsequent product all surfaces shall be clean, dry and free from any contamination.

Surface preparation summary table

Substrate	Surface preparation	
	Minimum	Recommended
Coated surfaces	Clean, dry and undamaged compatible coating (ISO 12944-4 6.1)	P Sa 2½ (ISO 8501-2)
Concrete	Low pressure water washing to a rough, clean, dry and laitance free surface.	Minimum 4 weeks curing. Moisture content maximum 5 %. Prepare the surface by means of enclosed blast shot or diamond grinding and other appropriate means to abrade the surrounding concrete and to remove laitance.

Application

Application methods

The product can be applied by

Spray: Gravity Feed Hopper Gun or other suitable equipment. Consult Jotun for additional information, as required.

Product mixing ratio (by volume)

Mix Comp A and Comp B, then add Comp C (graded aggregate), 10 minutes prior to use.

STANDARD GRADE

Jota Armour Comp A	6	part(s)
Jota Armour Std Comp B	1	part(s)
Jota Armour Comp C	1	part(s)

WINTER GRADE

Jota Armour Comp A	4	part(s)
Jota Armour Wintergrade Comp B	1	part(s)

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Jota Armour Comp C 1 part(s)

Thinner/Cleaning solvent

Thinner: Jotun Thinner No. 17

Guiding data for airless spray

Nozzle tip (inch/1000): 31
Pressure at nozzle (minimum): 4 bar

Drying and Curing time

Substrate temperature 0 °C 5 °C 10 °C 23 °C 40 °C

STANDARD GRADE

Surface (touch) dry			8 h	5 h	3 h
Walk-on-dry			24 h	14 h	6 h
Dried to over coat, minimum			28 h	14 h	6 h
Dried/cured for service			14 d	7 d	2 d

WINTER GRADE

Surface (touch) dry	22 h	14 h	8 h	3 h
Walk-on-dry	32 h	24 h	24 h	8 h
Dried to over coat, minimum	32 h	24 h	24 h	8 h
Dried/cured for service	28 d	14 d	14 d	4 d

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

Surface (touch) dry: The state of drying when slight pressure with a finger does not leave an imprint or reveal tackiness. Dry sand sprinkled on the surface can be brushed off without sticking to or causing damage to the surface.

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

Dried to over coat, minimum: The shortest time allowed 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.

Induction time and Pot life

Paint temperature 23 °C

STANDARD GRADE

Induction time	10 min
Pot life	2 h

WINTER GRADE

Pot life	1 h
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Heat resistance

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

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, epoxy mastic, zinc epoxy
 Subsequent coat: epoxy, epoxy mastic, polyurethane

Packaging (typical)

	Volume
Jota Armour Comp A	4 l
Jota Armour Std Comp B	0.7 l
Jota Armour Wintergrade Comp B	1 l
Jota Armour Comp C	14 kg

The components are packed as a kit in a 20 l mixing pail.

9 l kit: 4 l Comp A, 0.7 l Jota Armour Std Comp B and 14 kg Comp C.

9.3 l kit: 4 l Comp A, 1 l Jota Armour Wintergrade Comp B and 14 kg Comp C.

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, 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

Jota Armour Comp A	48 month(s)
Jota Armour Std Comp B	48 month(s)
Jota Armour Wintergrade Comp B	48 month(s)
Jota Armour Comp C	120 month(s)

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.

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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

Products primarily meant for use as primers and antifoulings may have slight color variations from batch to batch. Such products may fade and chalk when exposed to sunlight and weathering.

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.