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 on metallic substrates coated with approved primers and on concrete coated with suitable sealer.

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.

Colors

grey 038, green 137, BS 640

Product data

Property	Test/Standard	Description
STANDARD GRADE		
Solids by volume	ISO 3233	90 ± 2 %
Gloss level (GU 60 °)	ISO 2813	semi gloss (35-70)
Flash point	ISO 3679 Method 1	95 °F (35 °C)
Density	calculated	2.5 kg/l

Region	Regulation	Test Standard	VOC Value
US	CARB(SCM)2020 / SCAQMD rule 1113	Calculated	0.97 lbs/gal

WINTER GRADE			
Solids by volume	ISO 3233		84 ± 2 %
Flash point	ISO 3679 Method 1		88 °F (31 °C)
Density	calculated		2.5 kg/l

Region	Regulation	Test Standard	VOC Value
US	CARB(SCM)2020 / SCAQMD rule 1113	Calculated	1.14 lbs/gal

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

Gloss description: According to Jotun Performance Coatings' definition.

Film thickness per coat

Typical recommended specification range

STANDARD GRADE

Dry film thickness	30 mils (750 µm)	118 mils (3000 µm)
Wet film thickness	33 mils (830 µm)	131 mils (3330 µm)
Theoretical spreading rate	50 ft²/gal (1.2 m²/l)	10 ft²/gal (0.3 m²/l)

WINTER GRADE

Dry film thickness	30 mils (750 µm)	- 118 mils (3000 µm)
Wet film thickness	35 mils (890 µm)	141 mils (3570 µm)
Theoretical spreading rate	45 ft²/gal (1.1 m²/l)	12 ft²/gal (0.3 m²/l)

Anti-slip roughness profile of coating limits accuracy on film thickness measurements. Approximate spreading rate for 40 mils (1000 µm) dry film is 86 ft² (8 m²) /kit from practical testing.

Surface preparation

Surface preparation summary table

Substrate	Surface preparation	
	Minimum	Recommended
Coated surfaces	Clean, dry and undamaged compatible coating	Clean, dry and undamaged compatible coating

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

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

Thinner/Cleaning solvent

Thinner: Jotun Thinner No. 17

Drying and Curing time

Temperatures:
-10°C = 14°F / -5°C = 23°F / 0°C = 32°F / 5°C = 41°F / 10°C = 50°F / 15°C = 59°F / 23°C = 73°F / 35°C = 95°F / 40°C = 104°F / 100°C = 212°F

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	

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.

Temperatures: 15°C = 59°F / 23°C = 73°F

Paint temperature	23 °C
STANDARD GRADE	
Induction time	10 min
Pot life	2 h
WINTER GRADE	
Pot life	1 h

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 (liters)
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	4.3 l /

The components may be packed as a kit in a 5 gallon (20 l) mixing pail.
2.38 gallon (9 l) kit: 1.05 gallons (4 l) Comp A, 0.18 gallons (0.7 l) Jota Armour Std Comp B and 1.14 gallons (4.3 l) Comp C.
2.46 gallon (9 l) kit: 1.05 gallons (4 l) Comp A, 0.26 gallons (1 l) Jota Armour Wintergrade Comp B and 1.14 gallons (4.3 l) Comp C.

The volume stated is for factory made colors. 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 73°F (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.

Note

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.

Color variation

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

Color and gloss retention on topcoats/finish coats may vary depending on type of color, 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.