

# Technical Data

## Jota Armour



### Product description

Jota Armour is a three-pack, abrasion-resistant, high solids epoxy-based coating formulated to be applied in high film thickness for durability, wear resistant and anti-slip properties under dry, wet and oily conditions. The third component consists of selected blend of abrasion-resistant fused, aluminium oxides. The product is sold as kits and two kits are available, one with standard (Std) curing agent, and one with wintergrade (WG) curing agent.

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### Recommended use

For severe dry, wet and oily conditions requiring durability, wear resistance, anti-slip properties, such as flight decks, military applications, extreme environments. Approved to U.K. Defence Standard 80-134 for the Royal Navy. One-coat, high build application over anti-corrosive primer.

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### Film thickness and spreading rate

Std Comp. B:	Minimum	Maximum	Typical
Film thickness, dry ( $\mu\text{m}$ )	750	3000	1000
Film thickness, wet ( $\mu\text{m}$ )	830	3330	1100
Theoretical spreading rate ( $\text{m}^2/\text{l}$ )	1,2	0,3	0,9

WG Comp. B:	Minimum	Maximum	Typical
Film thickness, dry ( $\mu\text{m}$ )	750	3000	1000
Film thickness, wet ( $\mu\text{m}$ )	890	3570	1190
Theoretical spreading rate ( $\text{m}^2/\text{l}$ )	1,1	0,28	0,85

### Comments

\* anti-slip roughness profile of coating limits accuracy on film thickness measurements.  
Approximate spreading rate for 1000  $\mu\text{m}$  dry film is 10  $\text{m}^2/\text{Kit}$  from practical testing

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## Physical properties

<b>Colour</b>	Grey 38, Green 137, BS 640
<b>Solids (vol %)*</b>	90 ± 2 Std Comp. B 84 ± 2 WG Comp. B
<b>Flash point</b>	<b>Std Comp. B:</b> 35°C ± 2 (Setaflash) <b>WG Comp. B:</b> 31°C ± 2 (Setaflash)
<b>VOC</b>	<b>Std Comp.B</b> 70 gms/ltr UK-PG6/23(97). Appendix 3 <b>WG Comp. B</b> 100 gms/ltr UK-PG6/23(97). Appendix 3
<b>Gloss</b>	Semigloss
<b>Gloss retention</b>	Fair
<b>Water resistance</b>	Very good
<b>Abrasion resistance</b>	Excellent
<b>Solvent resistance</b>	Good
<b>Chemical resistance</b>	Very good
<b>Flexibility</b>	Good

\*Measured according to ISO 3233:1998 (E)

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## Surface preparation

All surfaces should be clean, dry and free from contamination. The surface should be assessed and treated in accordance with ISO 8504.

### Coated surfaces

Clean, dry and undamaged compatible primer. Contact your local Jotun office for more information.

### Other surfaces

The coating may be used on other substrates. Please contact your local Jotun office for more information.

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## Condition during application

The temperature of the substrate should be minimum +10°C (Std) (0°C in CC/WG) and at least 3°C above the dew point of the air, temperature and relative humidity measured in the vicinity of the substrate. Good ventilation is required in confined areas to ensure proper drying. The coating should not be exposed to oil, chemicals or mechanical stress until cured.

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## Application methods

<b>Spray</b>	Gravity Feed Hopper Gun or other suitable equipment. Consult Jotun for additional information, as required.
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## Application data

<b>Mixing ratio (volume)</b>	<b>Std Comp. B</b> 6 parts Comp. A (base) to be mixed thoroughly with 1 part Comp. B (curing agent) + Comp. C <b>WG Comp. B</b> 4 parts Comp. A (base) to be mixed thoroughly with 1 part Comp. B (curing agent) + Comp. C
<b>Mixing</b>	10 min. prior to use
<b>Induction time</b>	10 minutes.
<b>Pot life (23°C)</b>	<b>Std Comp. B</b> 2 hours (reduced at higher temperatures) <b>WG Comp. B</b> 1 hour (reduced at higher temperatures)
<b>Thinner/Cleaner</b>	Jotun Thinner No. 17
<b>Guiding data airless spray</b>	
<b>Pressure at nozzle</b>	Air pressure supply 4.0-4.5 bar
<b>Nozzle tip</b>	8 mm
<b>Spray angle</b>	45°
<b>Filter</b>	Remove filters.

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## Drying time

Drying times are generally related to air circulation, temperature, film thickness and number of coats, and will be affected correspondingly. The figures given in the table are typical with:

- \* Good ventilation (Outdoor exposure or free circulation of air)
- \* Typical film thickness
- \* One coat on top of inert substrate

<b>Std Comp. B:</b>				
<b>Substrate temperature</b>		<b>10°C</b>	<b>23°C</b>	<b>40°C</b>
<b>Surface dry</b>		8 h	5 h	3 h
<b>Through dry</b>		24 h	14 h	6 h
<b>Cured</b>		14 d	7 d	2 d
<b>Dry to recoat, minimum</b>		28 h	14 h	6 h
<b>WG Comp. B:</b>				
<b>Substrate temperature</b>	<b>0°C</b>	<b>5°C</b>	<b>10°C</b>	<b>23°C</b>
<b>Surface dry</b>	22 h	14 h	8 h	3 h
<b>Through dry</b>	32 h	24 h	24 h	8 h
<b>Cured</b>	28 d	14 d	14 d	4 d
<b>Dry to recoat, minimum</b>	32 h	24 h	24 h	8 h
<b>Dry to recoat, maximum</b>				

The given data must be considered as guidelines only. The actual drying time/times before recoating may be shorter or longer, depending on film thickness, ventilation, humidity, underlying paint system, requirement for early handling and mechanical strength etc. A complete system can be described on a system sheet, where all parameters and special conditions could be included.

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## Typical paint system

Jotamastic 87 Alu	1-2 x 150 µm	(Dry Film Thickness)
<b>Jota Armour</b>	<b>1 x 1000 µm</b>	<b>(Dry Film Thickness)</b>
or		
<b>Jota Armour</b>	<b>1 x 3000 µm</b>	<b>(Dry Film Thickness)</b>

Other systems may be specified, depending on area of use

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## Storage

The product must be stored in accordance with national regulations. Storage conditions are to keep the containers in a dry, cool, well ventilated space and away from source of heat and ignition. Containers must be kept tightly closed.

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## Handling

Handle with care. Stir well before use and during application.

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## Packing size

9,0 litre kit: 4,0 l Comp. A and 0,7 l Std Comp. B and 14 kg Comp. C packed in 20 l mixing pail.

9,3 litre kit: 4,0 l Comp. A and 1,0 l WG Comp. B and 14 kg Comp. C packed in 20 l mixing pail.

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## Health and safety

Please observe the precautionary notices displayed on the container. Use under well ventilated conditions. Do not breathe or inhale 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.

**For detailed information on the health and safety hazards and precautions for use of this product, we refer to the Material Safety Data Sheet.**

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### DISCLAIMER

*The information in this data sheet is given to the best of our knowledge based on laboratory testing and practical experience. However, as the product is often used under conditions beyond our control, we cannot guarantee anything but the quality of the product itself. We reserve the right to change the given data without notice.*

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