

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.

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.

Film thickness and spreading rate

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

WG Comp. B:	Minimum	Maximum	Typical
Film thickness, dry (μm)	750	3000	1000
Film thickness, wet (μm)	890	3570	1190
Theoretical spreading rate (m^2/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 μm dry film is 10 m^2/Kit from practical testing

Hong Kong rules: Category of paints - Other vessel coatings; VOC 160 gms/ltr HK EPD method (Ready to use);
Exempt compound - N/A; Specific gravity: 1.43 (A+B); 3,92(C)
Both VOC and Specific gravity values provided are typical values, subject to changes when different colour involved.

Physical properties

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

*Measured according to ISO 3233:1998 (E)

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.

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.

Application methods

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

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

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

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

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.

Typical paint system

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

Other systems may be specified, depending on area of use

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.

Handling

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

Packing size

9,0 litre set: 4,0 litres Comp. A and 0,7 litre Jota Armour, Std Comp. B and 14 kg Comp. C (graded aggregate) packed in 20 litre mixing pail.

9,3 litre set: 4,0 litres Comp. A and 1,0 litre Jota Armour, WG Comp. B and 14 kg Comp. C (graded aggregate) packed in 20 litre mixing pail.

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.

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 can be used under conditions beyond our control, we can only guarantee the quality of the product itself. We also reserve the right to change the given data without notice. Minor product variations may be implemented in order to comply with local requirements.

If there is any inconsistency in the text the English (UK) version will prevail.

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