Technical Data Balloxy HB Light



Product description

Balloxy HB Light is a two pack surface tolerant high solids polyamine cured epoxy mastic coating for use at temperatures between -5°C and 40°C. Available with different hardeners for varying substrate temperatures, Standard (Std) and Wintergrade (WG).

Recommended use

Balloxy HB Light is intended for use in water ballast tanks, on steel behind insulation, in cofferdams and areas with condensation and where blast cleaning may not be possible and on hydrojetted surface still being moist. Balloxy HB Light is also available in a Lumi version and is intended as the first coat in water ballast tanks, utilising luminous pigments to aid application and inspection.

For application in water ballast tanks at newbuilding stage in accordance with PSPC (IMO Res. MSC 82/W), see the "Application procedure for water ballast tanks - Balloxy HB Light".

Film thickness and spreading rate

Std Comp. B	Minimum	Maximum	Typical	
Film thickness, dry (µm)	125	300	160	
Film thickness, wet (µm)	150	365	190	
Theoretical spreading rate (m²/l)	6,6 2,7		5,1	
WG Comp. B	Minimum	Maximum	Typical	
WG Comp. B Film thickness, dry (µm)	Minimum 125	Maximum 300	Typical 160	
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Comments

Hong Kong rules: Category of paints - Other vessel coatings; VOC 300 gms/ltr HK EPD method (Ready to use); Exempt compound - N/A; Specific gravity: 1.40 (A+B); Both VOC and Specific gravity values provided are typical values, subject to changes when different colour involved.

Approvals

B1 classification by Det Norske Veritas (DNV) for water ballast tanks.

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Physical properties

Colour Beige, Green

Solids (vol %)* 82 \pm 2 Std Comp. B

71 ± 2 WG Comp. B

Flash point Std Comp. B

35°C ± 2 (Setaflash) **WG Comp. B** 35°C ± 2 (Setaflash)

VOC Std Comp. B

2,5 lbs/gal (300 gms/ltr) USA-EPA Method 24 150 gms/ltr UK-PG6/23(97). Appendix 3

WG Comp. B

2,5 lbs/gal (300 gms/ltr) USA-EPA Method 24 240 gms/ltr UK-PG6/23(97). Appendix 3

Gloss Semigloss
Water resistance Excellent
Abrasion resistance Very good
Solvent resistance Good
Chemical resistance Good
Flexibility Good

Surface preparation

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

Bare steel

Cleanliness: Power tool cleaning to min. St 2, mill scale free (ISO 8501-1:2007). Improved surface treatment (blast cleaning to Sa 2½) will improve the performance. In case of waterjetting the flash rust degree shall not exceed M (moderate) in SSPC and NACE standards for waterjetted surfaces.

Shopprimed steel

Clean, dry and undamaged approved shopprimer.

Coated surfaces

Clean, dry and undamaged compatible primer. Contact your local Jotun office for more information. For maintenance UHPWJ to WJ2 (NACE No.5/SSPC-SP 12) or Power tool cleaning to min. St 2 for rusted areas

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) (-5°C in 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.

Hydrojetting of steel surface makes a wet surface. The surrounding air must have a relative humidity not exceeding 85 %. Before painting the surface shall not be glossy with moisture, but can have a patchy appearance.

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^{*}Measured according to ISO 3233:1998 (E)

Application methods

Spray Use airless spray

Brush Recommended for stripe coating and small areas, care must be taken to achieve the specified dry

film thickness.

Roller May be used for small areas but not recommended for first primer coat, however when using roller

application care must be taken to apply sufficient material in order to achieve the specified dry film

thickness.

Application data

Mixing ratio (volume) Std Comp. B

5:1

WG Comp. B

3:1

Mixing 5 parts Comp. A (Base) to be thoroughly mixed with 1 part Balloxy HB Light, Std

Comp. B (Curing agent).

3 parts Comp. A (Base) to be thoroughly mixed with 1 part Balloxy HB Light, WG

Comp. B (Curing agent).

Induction time 10 minutes.

Pot life (23°C) Std Comp. B

2 hours (Reduced at higher temp.)

WG Comp. B

11/2 hours (Reduced at higher temp.)

Thinner/Cleaner Jotun Thinner No. 17

Guiding data airless spray

 Pressure at nozzle
 15 MPa (150 kp/cm², 2100 psi.).

 Nozzle tip
 0.53 - 0.79 mm (0.021 - 0.031").

Spray angle 40 - 80°

Filter Check to ensure that filters are clean

Note * The temperature of the mixture of base and curing agent is recommended to be

at least 15°C, otherwise extra solvent may be required to obtain correct viscosity.

* Too much solvent results in lower sag resistance and slower cure.

* If extra solvent is necessary, this should be added after mixing of the two

components.

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	4 h	2 h
Through dry	24 h	10 h	4 h
Cured	14 d	7 d	2 d
Dry to recoat, minimum	24 h	10 h	4 h
Dry to recoat, maximum ¹			

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WG Comp. B					
Substrate temperature	-5°C	0°C	5°C	10°C	23°C
Surface dry	24 h	18 h	12 h	6 h	2,5 h
Through dry	48 h	26 h	18 h	12 h	5 h
Cured	21 d	14 d	7 d	3 d	2 d
Dry to recoat, minimum	48 h	26 h	18 h	12 h	5 h
Dry to recoat, maximum	-	-	-	_	_

1. Provided the surface is free from chalking and other contamination prior to application, there is normally no overcoating time limit. Best intercoat adhesion occurs, however, when the subsequent coat is applied before preceding coat has cured. If the coating has been exposed to direct sunlight for some time, special attention must be paid to surface cleaning and mattening/removal of the surface layer in order to obtain good adhesion.

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

Balloxy HB Light 2 x 160 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.

Packing size

18 litre unit: 15 litres Comp. A in a 20 litre container and 3 litres Balloxy HB Light, Std Comp. B in a 3 litre container. 20 litre unit: 15 litres Comp. A in a 20 litre container and 5 litres Balloxy HB Light, WG Comp. B in a 5 litre container.

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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ISSUED 14 NOVEMBER 2011 BY JOTUN THIS DATA SHEET SUPERSEDES THOSE PREVIOUSLY ISSUED

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