

Technical Data

Wintergrade Balloxy HB Lumi



Product description

Wintergrade Balloxy HB Lumi is a two pack surface tolerant high solids epoxy mastic coating for use at temperatures between -5°C and 10°C. This product utilises luminous pigments to aid application and inspection.

Recommended use

Wintergrade Balloxy HB Lumi 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.

Film thickness and spreading rate

	Minimum	Maximum	Typical
Film thickness, dry (µm)	150	300	175
Film thickness, wet (µm)	210	420	246
Theoretical spreading rate (m ² /l)	4,7	2,4	4,1

Physical properties

Colour	Beige, Green
Solids (vol %)*	71 ± 2
Flash point	35°C ± 2 Setaflash
VOC	2,5 lbs/gal (300 gms/ltr) USA-EPA Method 24 240 gms/ltr UK-PG6/23(97). Appendix 3
Gloss	Flat
Water resistance	Excellent
Abrasion resistance	Very good
Solvent resistance	Good
Chemical resistance	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.

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 hydrojetting the flash rust degree shall not exceed moderate in SSPC and NACE standards for water prepared 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 -5°C 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.

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.

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)	3 parts Balloxy HB Lumi Comp. A (Base) to be thoroughly mixed with 1 part Wintergrade Balloxy HB Light Comp. B (Curing agent).
Induction time	10 minutes.
Pot life (23°C)	1½ hours.
Thinner/Cleaner	Jotun Thinner No. 17
Guiding data airless spray	
Pressure at nozzle	15 MPa (150 kp/cm ² , 2100 psi.)
Nozzle tip	0.53 - 0.79 mm (0.021 - 0.031")
Spray angle	40 - 80°
Filter	Check to ensure that the filters are clean.
Note	<p>* 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.</p> <p>* Too much solvent results in lower sag resistance and slower cure.</p> <p>* Thinner should be added after mixing components.</p>

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

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					

1. The surface should be free from chalking and contamination prior to application. Best intercoat adhesion occurs when the subsequent coat is applied before the preceding coat has cured. If this is exceeded it may be necessary to roughen the surface.

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

Wintergrade Balloxy HB Lumi 1 x 175 µm (Dry Film Thickness)
 Wintergrade Balloxy HB Light 1 x 175 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

15 litres Comp. A (base) in a 20 litre container and 5 litres Comp. B (base) in a 5 litre container
 Packing may vary from country to country according to local requirements.

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 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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