

# Technical Data

## Balloxy BT



### Product description

A two component, surface tolerant, abrasion resistant, high solid polyamine cured epoxy based coating.

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### Recommended use

Designed as an all year maintenance product for water ballast tanks. Can be used for properly prepared carbon steel and a range of aged coating surfaces as primer, midcoat, finish or as single coat system in atmospheric and immersed environments. It can be applied at sub zero surface temperatures.

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### Film thickness and spreading rate

	Minimum	Maximum	Typical
Film thickness, dry ( $\mu\text{m}$ )	125	300	160
Film thickness, wet ( $\mu\text{m}$ )	175	416	225
Theoretical spreading rate ( $\text{m}^2/\text{l}$ )	5,7	2,4	4,4

### Comments

\* For DFTs below 150  $\mu\text{m}$  thinner could be used.

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## Physical properties

<b>Colour</b>	Aluminium Red toned, Grey
<b>Solids (vol %)*</b>	72 ± 2
<b>Flash point</b>	30 °C ± 2 (Setaflash)
<b>VOC</b>	2 lbs/gal (240 gms/ltr) USA-EPA Method 24 230 gms/ltr UK-PG6/23(97). Appendix 3
<b>Gloss</b>	Semigloss
<b>Gloss retention</b>	Fair
<b>Water resistance</b>	Excellent
<b>Abrasion resistance</b>	Very good
<b>Solvent resistance</b>	Very good
<b>Chemical resistance</b>	Good
<b>Flexibility</b>	Good
<b>Compatibility with cathodic protection</b>	Very good

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

Hong Kong rules:

Category of paints - Other vessel coatings; VOC 240 gms/ltr HK EPD method (Ready to use); Exempt compound - N/A; Specific gravity: 1.44 (A+B); Both VOC and Specific gravity values provided are typical values, subject to changes when different colour involved.

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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.

### Bare steel

Cleanliness: Power tool cleaning to min. St 2, mill scale free (ISO 8501-1:2007) and a roughness between 35 - 50 microns. Improved surface treatment (blast cleaning to Sa 2½) will improve the performance.

### Shopprimed steel

Clean, dry and undamaged approved shopprimer.

### Coated surfaces

Clean, dry and undamaged compatible primer. Please 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 coating could be applied down to -10°C surface temperature. Temperature of the substrate should be minimum 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 and curing. Do not use heated air until the solvents have evaporated from the paint film to avoid surface drying and solvent entrapment. The coating should not be exposed to oil, chemicals or mechanical stress until cured. During application and the initial drying of the coating, the coating should not be exposed to high humidity as this can result in loss of gloss and an inferior film.

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## Application methods

<b>Spray</b>	Use airless spray
<b>Brush</b>	Recommended for stripe coating and small areas, care must be taken to achieve the specified dry film thickness.
<b>Roller</b>	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.

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## Application data

<b>Mixing ratio (volume)</b>	4:1
<b>Mixing</b>	4 parts Comp. A (base) to be mixed thoroughly with 1 part Balloxy BT, Comp. B (curing agent).
<b>Induction time</b>	10 minutes.
<b>Pot life (23°C)</b>	1.5 hours (reduced at higher temperatures).
<b>Thinner/Cleaner</b>	Jotun Thinner No. 17
<b>Guiding data airless spray</b>	
<b>Pressure at nozzle</b>	15 MPa (150 kp/cm <sup>2</sup> , 2100 psi)
<b>Nozzle tip</b>	0.43-0.79 mm (0.017-0.031")
<b>Spray angle</b>	40-80°
<b>Filter</b>	Check to ensure that filters are clean.

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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>Substrate temperature</b>	<b>-5°C</b>	<b>0°C</b>	<b>5°C</b>	<b>10°C</b>	<b>23°C</b>
<b>Surface dry</b>	13 h	10 h	7,5 h	5 h	2,5 h
<b>Through dry <sup>1</sup></b>	44 h	27 h	14 h	8 h	5 h
<b>Cured</b>		21 d	14 d	10 d	7 d
<b>Dry to recoat, minimum <sup>2</sup></b>	24 h	18 h	10 h	6 h	4 h
<b>Dry to recoat, maximum <sup>3</sup></b>					
<b>Substrate temperature 40°C</b>					
<b>Surface dry</b>	1 h				
<b>Through dry <sup>1</sup></b>	2 h				
<b>Cured</b>	3 d				
<b>Dry to recoat, minimum <sup>2</sup></b>	2 h				
<b>Dry to recoat, maximum <sup>3</sup></b>					

1. The earliest time for exposure to mechanical strain, i.e. to walk on the coated surface.

2. The earliest time for recoating with the same generic type of paint. Note that the paint film is not hard at this time and can not withstand mechanical strain.
1. Overcoating by itself for severe (mechanical or immersed) exposure.

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

Balloxy BT Aluminium Red toned	1 x 125 µm	(Dry Film Thickness)
Balloxy BT Grey	1 x 125 µm	(Dry Film Thickness)

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.

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## Packing size

20 litre unit: 16 litres Comp. A in a 20 litre container and 4 litres Balloxy BT, Comp. B in a 5 litre container.

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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 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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