

Technical Data

Baltoflake TU



Product description

This is a glass flake reinforced unsaturated polyester coating. It is specially designed for touch up and stripe coating of the Baltoflake range. It is an ultra high build, extremely abrasion resistant and fast curing barrier coating. Can be used in atmospheric and immersed environments. Suitable for properly prepared carbon steel and concrete substrates.

Recommended use

Recommended for areas subject to extreme mechanical wear and harsh exposure conditions. Recommended for offshore environments, including splash zones, jetties, piles, tidal zones, decks, battery rooms, power stations, exterior of buried tanks, concrete bunds, refineries, bridges, mining equipment and general structural steel where future maintenance is challenging.

Film thickness and spreading rate

	Minimum	Maximum	Typical
Film thickness, dry (μm)	600	1500	1000
Film thickness, wet (μm)	650	1610	1080
Theoretical spreading rate (m^2/l)	1,55	0,62	0,93

Comments

All vinyl ester and polyester resin systems are subject to some shrinkage during the curing process. This results in a practical spreading rate lower than the theoretically calculated. The shrinkage depends on actual dry film thickness applied and conditions during application.

Physical properties

Colour	Limited number
Solids (vol %)*	98 ± 1
Flash point	53 °C ± 2 (Setaflash)
VOC	20 gms/ltr UK-PG6/23(97). Appendix 3
Gloss	Semiflat
Gloss retention	Good
Water resistance	Excellent
Abrasion resistance	Excellent
Solvent resistance	Very good
Chemical resistance	Very good
Flexibility	Limited
Compatibility with cathodic protection	Very good

*Theoretically calculated

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

Blast cleaning to Sa 2½. (ISO 8501-1:2007). Roughness: using abrasives suitable to achieve a coarse surface of Grade Medium G (50-85µm, Ry5) (ISO 8503-2).

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 usually required in confined areas to ensure proper drying. The coating should not be exposed to oil, chemicals or mechanical stress until fully cured.

Application methods

Brush	Recommended for stripe coating and small areas, care must be taken to achieve the specified dry film thickness.
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Application data

Mixing ratio (volume)	1,25 vol.% Jotun Peroxide 13 at temperatures 10 - 35 °C. 2,5 vol.% Jotun Peroxide 13 at temperatures 5 - 10 °C.
Pot life (23°C)	35 minutes (Reduced at higher temperatures).
Thinner	Vinyl toluene. If needed max. 5% vinyltoluene.
Cleaner	Jotun Thinner No. 17 or Jotun Thinner No 27.
Note	For further details please see separate "Working Manual". Approved alternatives to Jotun Peroxide 13 can be used. Please contact Jotun, Technical Service Department.

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	10°C	23°C	40°C
Surface dry	3 h	2 h	2 h
Through dry	3 h	2 h	2 h
Cured	3 d	2 d	1 d
Dry to recoat, minimum	3 h	2 h	2 h
Dry to recoat, maximum ¹	7 d	48 h	7 d

1. The surface should be free from chalking and contamination prior to application. If the maximum dry to recoat time is exceeded, please contact Jotun for advice.

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

Baltoflake TU **1-2 coats by brush**

Other systems may be specified, depending on area of use

Storage

The product must be stored below 25°C and 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.

SHELF LIFE: 6 months, at 23°C, subject to re-inspection thereafter. Shelf life very much depends on temperature. Lower temperatures (if possible below freezing point) will lengthen the shelf life considerably, while high temperature may lead to gelling in the tin.

Peroxide must be kept in their original containers. No other materials shall be stored in the same room as peroxides. Always consult your local/national authorities for storing peroxides!

Handling

Handle peroxide with care. Avoid that it comes in contact with flameable substances. Before handling, see safety data sheet for peroxide.

Packing size

20 litre unit: 16 litres in a 20 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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