

Technical Data

Baltoflake Ecolife



Product description

Baltoflake Ecolife is a quick curing, high build, abrasion resistant styrene free glass flake reinforced polyester coating, that gives long time corrosion protection.

Recommended use

Steel structures in general and in particular items subject to extreme mechanical wear. May also be used for protection of aluminium and concrete (special designed systems). Baltoflake Ecolife can be applied as a non-skid coating system for walkways, escape routes and deck areas.

Film thickness and spreading rate

	Minimum	Maximum	Typical
Film thickness, dry (μm)	600	1500	1000
Film thickness, wet (μm)	610	1530	1020
Theoretical spreading rate (m^2/l)	1,63	0,65	0,98

Comments

The practical spreading rate may vary from the theoretical dependent upon film thickness and the ambient temperature, ventilation/wind during the application.

Physical properties

Colour	Limited number
Solids (vol %)*	98 \pm 1
Flash point	53°C \pm 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

*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

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

Spray	Preferably 2-comp. airless spray. Application with 1-comp. ordinary airless spray is also possible, provided that inhibitor is added.
Brush	Recommended for stripe coating and small areas, care must be taken to achieve the specified dry film thickness.

Application data

Mixing ratio (volume)	2-comp. airless spray: 1,25 vol.% Norpol Peroxide 13 at temperatures 10 - 35° C. 2,5 vol.% Norpol Peroxide 13 at temperatures 5 - 10° C. 1-comp. ordinary airless spray: Addition of inhibitor and peroxide according to table on page 3. Norpol Peroxide 1 can be used instead of 13 at temperatures above 15° C.
Pot life (23°C)	15-20 minutes (Reduced at higher temperatures). After addition of inhibitor for 1-comp. ordinary airless spray: 35 minutes.
Thinner	Vinyl toluene. If needed max. 5% vinyltoluene.
Cleaner	Jotun Thinner No. 17 or Jotun Thinner No 27.
Guiding data airless spray	
Pressure at nozzle	15 - 25 MPa (150-250 kp/cm ² , 2100-4000 psi.)
Ratio/Capacity:	>45:1, min. 12 l per minute. Slow moving piston.
Nozzle tip	0,69 - 1.09 mm (0.027 - 0.043").
Spray angle	40-80°, best 60°.
Filter	To be removed.
Ratio/Capacity:	
Note	For further details please see separate "Working Manual". Approved alternatives to Norpol peroxide 13. can be used. 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

Using 2-comp. airless spray

Substrate temperature	5°C	10°C	23°C	40°C
Surface dry	2.5 h	2.5 h	45 min	45 min
Through dry	2.5 h	2.5 h	45 min	45 min
Cured	3 d	2 d	12 h	4 h
Dry to recoat, minimum	2.5 h	2.5 h	45 min	45 min
Dry to recoat, maximum ¹	14 d	14 d	14 d	14 d

Using 1-comp. airless spray

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	14 d	14 d	14 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 Ecolife	1 x 900 - 1100 µm	(Dry Film Thickness)
or		
Baltoflake Ecolife	2 x 600 - 750 µm	(Dry Film Thickness)

Other systems may be specified, depending on area of use

MIXING RATIO BY USE OF 1-COMPONENT AIRLESS SPRAY

Temperature of steel and paint should not be lower than 10°C.

Steel and paint temp. °C	Addition of Norpol Inhibitor 9851		Addition of Norpol Peroxide 13	
	Volume percent	ml. into 16 litres of Baltoflake Ecolife	Volume percent	ml. into 16 litres of Baltoflake Ecolife
10 - 15	0.6	96	1.25	200
15 - 20	1.25	200	1.25	200
20 - 25	1.8	290	1.25	200
25 - 30	2.5	400	1.25	200
30 - 35	3.1	500	1.25	200

The temperature of the paint should never be more than 5°C higher than the steel temperature. The inhibitor should be mixed thoroughly with Baltoflake Ecolife before adding the required amount of Norpol Peroxide 13. Mechanical agitation for one minute or more is necessary to secure proper mixing of peroxide with the main component.

Note: Check temperature of pump during application. Friction in piston may cause increase in temperature. If this should happen, keep pump going to get heated Baltoflake Ecolife out as quickly as possible, and then wash the equipment.

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.

Handling

Handle Norpol Peroxide with care. Avoid that it comes in contact with combustible materials. Accelerator and peroxide must never be mixed directly together.

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 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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