

Technical Data

Penguard HB II



Product description

Penguard HB II is a high build, two-pack epoxy coating based on epoxy resin with high molecular weight. This product is designed to use as an intermediate or finish coat.

Recommended use

As part of a system for steel and concrete structures above water areas such as upper deck, topside and accommodation outside.

Film thickness and spreading rate

	Minimum	Maximum	Typical
Film thickness, dry (µm)	100	150	125
Film thickness, wet (µm)	154	230	192
Theoretical spreading rate (m ² /l)	6,5	4,3	5,2

Physical properties

Colour	Various
Solids (vol %)*	65 ± 2
Flash point	25°C ± 2 (Setaflash)
Gloss	Semigloss
Gloss retention	Fair
Water resistance	Very good
Abrasion resistance	Very good
Solvent resistance	Excellent
Chemical resistance	Excellent
Flexibility	Good

*Measured according to ISO 3233:1998 (E)

Surface preparation

Shopprimed steel

Clean, dry and undamaged shopprimer. Corroded and damaged areas to be blast cleaned to min. Sa 2½ (ISO 8501-1:2007).

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 water, chemicals or mechanical stress until cured.

Application methods

Spray	Use airless spray
Brush	Use a suitable brush. Care must be taken to achieve the specified dry film thickness.

Application data

Mixing ratio (volume)	4 parts Comp. A (base) to be mixed thoroughly with 1 part Comp. B (curing agent).
Pot life (23°C)	8 hours. (Reduced to higher temp.)
Thinner/Cleaner	Jotun Thinner No. 17
Guiding data airless spray	
Pressure at nozzle	15 MPa (150 kp/cm ² , 2100 psi)
Nozzle tip	0.46 - 0.69 mm (0.018-0.027")
Spray angle	40-80°
Filter	Check to ensure that filters are clean.

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	10°C	23°C	40°C
Surface dry	7 h	5 h	2,5 h	1 h
Through dry	24 h	16 h	8 h	4 h
Cured	15 d	10 d	5 d	3 d
Dry to recoat, minimum	24 h	16 h	8 h	4 h
Dry to recoat, maximum	- h	- h	- h	- h

- 1 Recommended data given for recoating with the same generic type of paint.
- 2 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 is 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

1) On bare steel or shopprimer:

Penguard Stayer HB 1 x 125µm (Dry Film Thickness)

Penguard HB II 1 x 125µm (Dry Film Thickness)

2) Penguard Primer 1 x 50µm (Dry Film Thickness)

Penguard HB II 1 x 100µm (Dry Film Thickness)

Penguard Topcoat 1 x 50µm (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.

Packing size

16 l Comp. A (base) and 4 l Comp. B (curing agent).

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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