Technical Data PENGUARD HB ZP



Product description

Penguard HB ZP is a two-pack zinc phosphate pigmented epoxy coating based on an epoxy resin with high molecular weight.

Recommended use

Steel work in general, galvanized steel or aluminium. Usually used in combination with an epoxy or polyurethane system.

Film thickness and spreading rate

	Minimum	iviaximum	ıypıcaı
Film thickness, dry (µm)	100	150	125
Film thickness, wet (µm)	185	280	230
Theoretical spreading rate (m ² /l)	5.4	3.6	4.3

Physical properties

Colour Off White Solids (vol %)* 54 ± 2

Flash point $23^{\circ}\text{C} \pm 2 \text{ (Setaflash)}$

Gloss Flat
Water resistance Very good
Abrasion resistance Very good
Solvent resistance Excellent
Chemical resistance Excellent
Flexibility Good

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: Blast cleaning to Sa $2\frac{1}{2}$ (ISO 8501-1:1988). Roughness: using abrasives suitable to achieve grade Fine to Medium G (30-85 μ m, Ry5) (ISO 8503-2)

Shopprimed steel

Clean, dry and undamaged approved blast-primer.

Coated surfaces

Clean, dry and undamaged compatible primer. Please contact your local Jotun office for more information.

Other surfaces

The surface must be sound, clean and dry. Surface contamination to be removed by detergent and

PENGUARD HB ZP Page 1

^{*}Measured according to ISO 3233:1998 (E)

fresh water cleaning.

The coating may be used on other substrates. Please contact your local Jotun office for more information.

Condition during application

For steel substrate: The temperature of the substrate should be minimum 10°C and at least 3°C above the dew point of the air, temperature and relative humidity measured in the vicinity of the substrate. For Concrete: The moisture content in the concrete should not exceed 4 % (by weight). The coating should not be exposed to oil, chemicals or mechanical stress until fully cured.

Application methods

Spray Airless spray

Brush Recommended for stripe coating and small areas, care must be taken to achieve

the specified dry film thickness.

Application data

Mixing ratio (volume) 4 parts of component A (base) to be thoroughly mixed with 1 part of

component B (hardener), half an hour prior to application.

Mixing ½ hour prior to use.

Pot life (23°C) 8 hours. (Reduced at higher temp.)

Thinner/Cleaner Jotun Thinner No. 17

Guiding data airless spray

 Pressure at nozzle
 Min. 150 kg/sq. cm (2100 p.s.i.)

 Nozzle tip
 0.46 - 0.69mm (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	10°C	23°C	40°C
Surface dry	5 h	2 h	1 h
Through dry	16 h	8 h	3 h
Cured	14 d	7 d	3 d
Dry to recoat, minimum	16 h	8 h	3 h
Dry to recoat, maximum ¹			

1 Provided the surface is free from chalking and other contamination prior to application, there is normally no overcoating time limit. If the coating has been exposed to direct sunlight for some time, special attention must be paid to surface cleaning and mattening/removal of the surface layer in order to obtain good adhesion.

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.

PENGUARD HB ZP Page 2

Typical paint system

Penguard HB ZP 1-2 x 100 μm (Dry Film Thickness) Normally topcoated with Epoxy or Polyurethane.

Normany topocated with Epoxy of Foryarethane.

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

16 L. (comp. A) And 4 L. (comp. B).

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.

Head Office & Nordic	Europe	Middle East	South East Asia
Jotun Paints	Jotun Paints (Europe) Ltd.	Jotun U.A.E Ltd. LLC.	Jotun (Singapore) Pte. Ltd.
P.O. Box 2021	Stather Road, Flixborough	Al Quoz Industrial Area	No 11-15, Sixth Lok Yang
N-3248 Sandefjord	North Lincolnshire DN15 8RR	P.O Box 3671	Road
Norway	United Kingdom	Dubai U.A.E	Jurong
Phone +47 33 45 70 00	Phone +44 172 44 00 000	Phone +971 4 3 39 50 00	Singapore 628 111
Fax +47 33 46 46 13	Fax +44 172 44 00 100	Fax +971 4 3 38 06 66	Phone +65 6265 4711
			Fax +65 6265 7484

Jotun is a World Wide company with factories, sales offices and stocks in more than 50 countries. For your nearest local Jotun address please contact the nearest regional office or visit our website at www.jotun.com

ISSUED 8 MAY 2002 BY JOTUN PAINTS THIS DATA SHEET SUPERSEDES THOSE PREVIOUSLY ISSUED

PENGUARD HB ZP Page 3