Technical Data PENGUARD CLASSIC ZP



Product description

Penguard Classic ZP is a high build, two-pack zinc phosphate pigmented epoxy coating based on epoxy resin with high molecular weight. Two hardeners (Comp. B) are available for varying substrate temperatures, Standard (Std) and Cold Climate (CC).

Recommended use

As an anti-corrosive primer and/or intermediate coating for protection of steel and other substrates. Can be used alone or in various systems of primers and topcoats.

Film thickness and spreading rate

	Minimum	Maximum	Typical
Film thickness, dry (µm)	100	150	100
Film thickness, wet (µm)	160	240	160
Theoretical spreading rate (m ² /l)	6,2	4,1	6,2

Physical properties

Colour	Grey, Red
Solids (vol %)*	62 ± 2
Flash point	25°C ± 2 (Setaflash)

Gloss	Flat
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

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 2½ (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 shopprimer.

Coated surfaces

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

Other surfaces

For aluminium and galvanised surface; degreasing, light abrading or sweep blasting. For stainless steel; light abrading or sweep blasting using chloride free, non-metallic abrasive.

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 +10°C (Std) (0°C in CC) 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 required in confined areas to ensure proper drying. The coating should not be exposed to oil, chemicals or mechanical stress until cured.

Application methods

SprayUse airless sprayBrushRecommended for stripe coating and small areas, 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)
Mixing Pot life (23°C)	30 minutes prior to use Penguard Classic Std. Comp. B: 6 hours (Reduced at higher temperature) Penguard Classic CC Comp. B: 2 hours (Reduced at higher temperature)
Thinner/Cleaner Guiding data airless spray Pressure at nozzle Nozzle tip Spray angle Filter	Jotun Thinner No. 17 15 MPa (150 kp/cm2, 2100 psi) 0.46-0.69 mm (0.018-0.027") 40-80° 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

Std Comp. B				
Substrate temperature		10°C	23°C	40°C
Surface dry		4 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				
CC Comp. B				
Substrate temperature	0°C	5°C	10°C	23°C
Surface dry	12 h	6 h	3 h	2 h
Through dry	30 h	20 h	10 h	5 h
Cured	-	16 d	8 d	4 d
Dry to recoat, minimum	30 h	20 h	10 h	5 h
Dry to recoat, maximum ¹				

Provided the surface is free from chalking and other contamination prior to application, there is normally no overcoating time limit. Best intercoat adhesion occurs, however, when the subsequent coat is applied before preceding coat has cured. 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.

Typical paint system

Penguard Classic ZP Penguard Classic Hardtop AS 1 x 100 microns 1 x 100 microns 1 x 50 microns

(Dry Film Thickness) (Dry Film Thickness) (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.

Handling

Handle with care. Stir well before use.

Packing size

16 litres Comp. A (base) in a 20 litre container and 4 litres Comp. B (curing agent) in a 5 litre container

4 litres Comp. A (base) in a 5 litre container and 1 litre Comp. B (curing agent) in a 1 litre container 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. Footer - English

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