# Technical Data PENGUARD PRIMER SEA



### Product description

Penguard Primer SEA is a high build, two-pack 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 a primer in a coating system for corrosion protection of steel and other substrates.

## Film thickness and spreading rate

	Minimum	Maximum	Typical
Film thickness, dry (µm)	40	60	50
Film thickness, wet (µm)	65	100	80
Theoretical spreading rate	15,5	10,3	12,4
$(m^2/I)$			

#### Physical properties

Colour Red Solids (vol %)\*  $62 \pm 2$ 

Flash point  $25^{\circ}\text{C} \pm 2 \text{ (Setaflash)}$ 

Gloss Flat

Water resistance
Abrasion resistance
Solvent resistance
Chemical resistance
Flexibility

Very good
Very good
Excellent
Excellent
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% (ISO 8501-1:1988). Roughness: using abrasives suitable to achieve grade Fine to Medium G (30-85  $\mu$ 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.

<sup>\*</sup>Measured according to ISO 3233:1998 (E)

#### 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  $+10^{\circ}$ 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

Spray Use airless spray

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

specified dry film thickness.

Roller May be used. However when using roller application care must be taken to apply

sufficient material in order 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 30 minutes prior to use

Pot life (23°C) Penguard Primer SEA Std Comp. B: 6 hours (Reduced at higher

temperature)

Penguard Primer SEA CC Comp. B: 2 hours (Reduced at higher

temperature)

Thinner/Cleaner Jotun Thinner No. 17

Guiding data airless spray

Pressure at nozzle 15 MPa (150 kp/cm2, 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

	10°C	23°C	40°C
	2 h	1 h	0,5 h
	14 h	6,5 h	3 h
	14 d	7 d	3 d
	14 h	6,5 h	3 h
O°C	5°C	10°C	23°C
10 n	5 <b>n</b>	∠ n	1 h
24 h	16 h	8 h	4 h
-	16 d	8 d	4 d
18 h	12 h	6 h	3 h
	-	2 h 14 h 14 d 14 h 0°C 5°C 10 h 5 h 24 h 16 h	2 h 1 h 14 h 6,5 h 14 d 7 d 14 h 6,5 h  O°C 5°C 10°C 10 h 5 h 2 h 24 h 16 h 8 h - 16 d 8 d

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 Primer SEA 1 x 50 microns (Dry Film Thickness)
Penguard Classic 1 x 100 microns (Dry Film Thickness)
Hardtop AS 1 x 50 microns (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.

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

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