

# Technical Data

## Penguard Clear Sealer



### Product description

Penguard Clear Sealer is a two-pack, transparent epoxy sealer with excellent penetrating properties.

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### Recommended use

It is used as a sealer/primer on concrete and other masonry surfaces as part of a suitable protective coating system.

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### Film thickness and spreading rate

	Minimum	Maximum	Typical
Film thickness, dry ( $\mu\text{m}$ )	30	50	40
Film thickness, wet ( $\mu\text{m}$ )	70	115	90
Theoretical spreading rate ( $\text{m}^2/\text{l}$ )	14,7	8,8	11

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### Physical properties

Colour	Transparent
Solids (vol %)*	44 $\pm$ 2
Flash point	25°C $\pm$ 2 (Setaflash)
Gloss	Glossy
Water resistance	Very good
Solvent resistance	Excellent
Chemical resistance	Excellent

\*Measured according to ISO 3233:1998 (E)

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### Surface preparation

Concrete substrates must be fully cured, sound, clean, dry and free from any form of contamination such as laitance, loose particles, oil, grease, curing compounds, shuttering oil, algae growth etc. Recommended pre-treatment methods are light grit blasting or high pressure water jetting (approx' 150 bars). Unsound concrete, blowholes, pinholes and other surface defects should be repaired using approved repair products/systems. The moisture content in the concrete substrate must be = 6% by volume. Please contact your local Jotun Office for more information.

#### Other surfaces

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

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### Condition during application

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. Good ventilation is usually required in confined areas to ensure proper drying.

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## Application methods

<b>Spray</b>	Use airless spray
<b>Brush</b>	Recommended
<b>Roller</b>	Recommended

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## Application data

<b>Mixing ratio (volume)</b>	4:1
<b>Mixing</b>	4 parts component A (base) to be mixed thoroughly with 1 part Penguard, Comp B (curing agent).
<b>Induction time</b>	30 minutes.
<b>Pot life (23°C)</b>	8 hours (reduced at higher temperature).
<b>Thinner/Cleaner</b>	Jotun Thinner No. 17
<b>Guiding data airless spray</b>	
<b>Pressure at nozzle</b>	15 MPa (150 kg./cm <sup>2</sup> , 2100 p.s.i.).
<b>Nozzle tip</b>	0.013" - 0.018" (0.33 mm - 0.46 mm).
<b>Spray angle</b>	40° - 80°
<b>Filter</b>	Check to ensure that filters are clean.

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## 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

<b>Substrate temperature</b>	<b>10°C</b>	<b>23°C</b>	<b>40°C</b>
<b>Surface dry</b>	120 min	60 min	30 min
<b>Through dry</b>	14 h	6.5 h	4 h
<b>Cured</b>	14 d	7 d	3 d
<b>Dry to recoat, minimum <sup>1</sup></b>	8 h	4 h	2 h
<b>Dry to recoat, maximum <sup>2</sup></b>			

1. Recommended data given for recoating with the same generic type of paint.
2. The surface should be dry and free from any contamination prior to application of the subsequent coat.

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.

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## Typical paint system

<b>Penguard Clear Sealer</b>	<b>1 -2 x 50 µm (Dry Film Thickness)</b>
Penguard Midcoat	1 x 125 µm (Dry Film Thickness)
Hardtop XP	1 x 50 µm (Dry Film Thickness)

Other systems may be specified, depending on area of use

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## 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.

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## Handling

Handle with care. Stir well before use.

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## Packing size

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

or

4 litres Comp. A (base) in a 5 litre container and 1 litres Penguard, Comp. B (curing agent) in a 1 litre container.

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## 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.**

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### 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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