

## Penguard Low Temp Additive

### Product description

This is an additive for improved low temperature curing of the following products:

Penguard HB  
Penguard Primer  
Penguard Special

Add 2 % (0.4 liter) to a 20 liter mixed.

### Typical use

Recommended when a faster curing or painting at lower substrate temperatures is desired.

### Product data

Property	Test/Standard	Description
Density	calculated	1 kg/l

The provided data is typical for factory produced products, subject to slight variation depending on color.

### Product mixing

Single pack

### Drying and Curing time

Temperatures:

-10°C = 14°F / -5°C = 23°F / 0°C = 32°F / 5°C = 41°F / 10°C = 50°F / 15°C = 59°F / 23°C = 73°F / 35°C = 95°F / 40°C = 104°F / 100°C = 212°F

Substrate temperature	2 °C	5 °C	10 °C	23 °C
<b>Penguard Primer</b>				
Surface (touch) dry	10h	5h	2h	1h
Walk-on-dry	24h	16h	8h	4h
Dried to over coat, minimum	18h	12h	6h	3h
Dried/cured for service		16d	8d	4d
<b>Penguard HB/Penguard Special</b>				
Surface (touch) dry	12 h	6h	3h	2h
Walk-on-dry	30 h	20h	10 h	5h
Dried to over coat, minimum	30h	20 h	10h	5h
Dried/cured for service		16d	8d	4d

Surface (touch) dry: The state of drying when slight pressure with a finger does not leave an imprint or reveal tackiness.

Walk-on-dry: Minimum time before the coating can tolerate normal foot traffic without permanent marks, imprints or other physical damage.

Dry to over coat, minimum: The recommended shortest time before the next coat can be applied.

Dried/cured for service: Minimum time before the coating can be permanently exposed to the intended environment/medium.

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## Packaging (typical)

	<b>Volume (liters)</b>	<b>Size of containers (liters)</b>
Penguard Low Temp Additive	0.4	1

0.4 l = 0.11 gal

The volume stated is for factory made colors. Note that local variants in pack size and filled volumes can vary due to local regulations.

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## Storage

The product must be stored in accordance with national regulations. Keep the containers in a dry, cool, well ventilated space and away from sources of heat and ignition. Containers must be kept tightly closed. Handle with care.

## Shelf life at 73°F (23 °C)

Penguard Low Temp Additive	48 month(s)
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In some markets commercial shelf life can be dictated shorter by local legislation. The above is minimum shelf life, thereafter the paint quality is subject to re-inspection.

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## Note

This product is for professional use only. The applicators and operators shall be trained, experienced and have the capability and equipment to mix/stir and apply the coatings correctly and according to Jotun's technical documentation. Applicators and operators shall use appropriate personal protection equipment when using this product. This guideline is given based on the current knowledge of the product. Any suggested deviation to suit the site conditions shall be forwarded to the responsible Jotun representative for approval before commencing the work.

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## Health and safety

Please observe the precautionary notices displayed on the container. Use under well ventilated conditions. Do not inhale spray 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.

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## Color variation

When applicable, products primarily meant for use as primers or antifoulings may have slight color variations from batch to batch. Such products may fade and chalk when exposed to sunlight and weathering.

Color and gloss retention on topcoats/finish coats may vary depending on type of color, exposure environment such as temperature, UV intensity etc., and application quality. Contact your local Jotun office for further information.

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## Disclaimer

The information in this document is given to the best of Jotun's knowledge, based on laboratory testing and practical experience. Jotun's products are considered as semi-finished goods and as such, products are often used under conditions beyond Jotun's control. Jotun cannot guarantee anything but the quality of the product itself. Minor product variations may be implemented in order to comply with local requirements. Jotun reserves the right to change the given data without further notice.

Users should always consult Jotun for specific guidance on the general suitability of this product for their needs and specific application practices.

If there is any inconsistency between different language issues of this document, the English (United Kingdom) version will prevail.

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