

Penguard Fulfill SF

Product description

This is a two component solvent free epoxy filler for use on concrete. It is a high strength filler, providing excellent water resistance and compressive strength higher than concrete. It has excellent compatibility with epoxy sealer and subsequent coatings. Can also be used on steel substrates exposed in atmospheric conditions. Suitable for properly prepared concrete and steel substrates. Can be applied up to 5mm without sags.

Typical use

Protective:

Suitable as fill as a part of a complete system exposed to a wide range of corrosive environments. Recommended for concrete cooling tower, bridge, LNG tank, Jetty and infrastructure building. Can be applied with a trowel, putty knife or spatula.

Colours

white

Product data

Property	Test/Standard	Description
Solids by volume	ISO 3233	97 ± 2 %
Density	calculated	1.8 kg/l

Region	Regulation	Test Standard	VOC Value
China	GB 30981-2020 Limit of harmful substances of industrial protective coatings	GB/T 23985-2009 8.3	16 g/l

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

Solids by weight (GBT 1725): 99 ± 1%

Film thickness per coat

Typical recommended specification range

Dry film thickness	200 - 5000 µm
Wet film thickness	206 - 5155 µm
Theoretical spreading rate	4.8 - 0.2 m ² /l
Theoretical spreading rate	2.7 - 0.1 m ² /kg

Surface preparation

Surface preparation summary table

Substrate	Surface preparation	
	Minimum	Recommended
Carbon steel	Sa 2½ (ISO 8501-1)	Sa 2½ (ISO 8501-1)
Concrete	Dry abrasive blast cleaning to SSPC-SP 13/NACE No. 6.	Dry abrasive blast cleaning to SSPC-SP 13/NACE No. 6.
Coated surfaces	Clean, dry and undamaged compatible coating	Clean, dry and undamaged compatible coating

Application

Application methods

The product can be applied by

Trowel: Trowel on to achieve the required thickness and smoothness.

Product mixing ratio (by weight)

Penguard Fulfill SF Comp A	9 part(s)
Penguard Fulfill SF Comp B	1 part(s)

Manual application

Mixing:

According to the correct mixing ratio, and stir/mix thoroughly with a power agitator until a uniform colour material is obtained before application.

Thinner/Cleaning solvent

Thinner: Jotun Thinner No. 17

Drying and Curing time

Substrate temperature	5 °C	10 °C	23 °C	40 °C
Surface (touch) dry	5 h	5 h	3 h	2 h
Walk-on-dry	48 h	33 h	14 h	6 h
Dry to over coat, minimum	48 h	33 h	14 h	6 h
Dried/cured for service	21 d	14 d	7 d	3 d

For maximum overcoating intervals, refer to the Application Guide (AG) for this product.

Drying and curing times are determined under controlled temperatures and relative humidity below 85 %, and at average of the DFT range for the product.

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.

Induction time and Pot life

Paint temperature	23 °C
Pot life	75 min

Product compatibility

Depending on the actual exposure of the coating system, various primers and topcoats can be used in combination with this product. Some examples are shown below. Contact Jotun for specific system recommendation.

Previous coat: epoxy
Subsequent coat: epoxy, epoxy mastic

Packaging (typical)

	Weight	Size of containers (litres)
Penguard Fulfill SF Comp A	13.5 kg	10
Penguard Fulfill SF Comp B	1.5 kg	3

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

Storage

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

Shelf life at 23 °C

Penguard Fulfill SF Comp A	12 month(s)
Penguard Fulfill SF Comp B	12 month(s)

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.

Caution

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.

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.

Colour variation

When applicable, products primarily meant for use as primers or antifoulings may have slight colour variations from batch to batch. Such products and epoxy based products used as a finish coat may chalk when exposed to sunlight and weathering.

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

Disclaimer

Technical Data Sheet

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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.
