Pilot WF SM

Product description

This is a one component waterborne acrylic emulsion coating. It is a versatile, fast drying product for interior use. It has a semi-gloss finish with good colour and gloss retention. Dries down to 10 °C. Ideal for new construction or maintenance where fast dry to handle and over coating times are required. To be used as topcoat in atmospheric environments. It is part of a complete waterborne system with a recommended Jotun waterborne primer and SteelMaster WF products.

Typical use

Protective:
Developed mainly for use on intumescent products (SteelMaster). Should be applied on-site and is best suited for indoor environment.

Colours

This product is tintable in a wide range of colours in Jotun's Multicolor Decorative (MCD) system.

Product data

Property	Test/Standard	Description
Solids by volume		45 ± 2 %
Gloss level (GU 60 °)	ISO 2813	35 +/- 5 GU
Flash point	ISO 3679 Method 1	101 °C
Density	calculated	1.3 kg/l

Region	Regulation	Test Standard	VOC Value
US	CARB(SCM)2020 / SCAQMD rule 1113	Calculated	163 g/l
Hong Kong	Air Pollution Control (VOC) Regulation	Calculated	163 g/l
EU	European Paint Directive 2004/42/CE	Calculated	80 g/l
EU IED	Industrial Emission Directive 2010/75/EU	Calculated	89 g/l
Korea	Korea Clean Air Conservation Act	Calculated	163 g/l

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

Gloss description: According to Jotun Performance Coatings' definition.

This Technical Data Sheet supersedes those previously issued.
The Technical Data Sheet (TDS) is recommended to be read in conjunction with the Safety Data Sheet (SDS) and the Application Guide (AG) for this product. For your nearest local Jotun office, please visit our website at www.jotun.com

Film thickness per coat

Typical recommended specification range

Dry film thickness	40	-	80	µm
Wet film thickness	89	-	178	µm
Theoretical spreading rate	11.3	-	5.6	m²/l

This product can be applied up to 50 % higher than maximum specified film thickness without loss of technical properties.
Application at substrate temperatures above 40°C and in direct sunlight may cause surface defects.

Surface preparation

Surface preparation summary table

Substrate	Surface preparation	
	Minimum	Recommended
Coated surfaces	Clean, dry and undamaged compatible coating	Clean, dry and undamaged compatible coating

Application

Application methods

The product can be applied by

Spray:	Use airless spray.
Brush:	Recommended for stripe coating and small areas, care must be taken to achieve the specified dry film thickness.
Roller:	Use a suitable roller. However when using roller application care must be taken to apply sufficient material in order to achieve the specified dry film thickness.

Product mixing

Single pack

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Thinner/Cleaning solvent

The product MUST NOT be thinned.

Cleaning solvent: Water

Guiding data for airless spray

Nozzle tip (inch/1000): 13-19

Pressure at nozzle (minimum): 150 bar/ 2100 psi

Drying and Curing time

Substrate temperature	10 °C	23 °C	40 °C
Surface (touch) dry	20 min	20 min	20 min
Dry to over coat, minimum	3 h	1.5 h	1 h

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 75 %, and at average of the DFT range for the product.

The recommended Relative Humidity range is 30-75 %.

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

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

Heat resistance

	Temperature	
	Continuous	Peak
Dry, atmospheric	70 °C	80 °C

The dry coating film will be gradually softer as temperature increases. Correct procedures for handling and stacking must be established, depending on environmental conditions. Protective properties will not be influenced.

Peak temperature duration max. 1 hour.

The temperatures listed relate to retention of protective properties. Aesthetic properties may suffer at these temperatures.

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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: acrylic, epoxy

Additional information

Procedure for preparation and cleaning of application equipment

To avoid solvent contamination of the waterborne paint the spraying equipment has to be conditioned before use. All equipment containing solvents in the pump, hoses and gun have to be thoroughly cleaned according to the following instructions. If the application equipment is made in stainless steel, designed for and only used for application of waterborne coatings this preparation and cleaning procedure is not needed.

Before spraying:
Circulate Jotun Thinner No. 17 through the equipment and hoses. Then Jotun Thinner No. 4 before fresh clean water.

After spraying:
Clean the equipment and hoses with water and alkaline detergent, then circulate Jotun Thinner No. 4 and finally Jotun Thinner No. 17.

Packaging (typical)

	Volume (litres)	Size of containers (litres)
Pilot WF SM	4.5/18	5 / 20

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

Pilot WF SM 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.

Environmental Documentation

This product can contribute to Green Building Standard credits. Please refer to Jotun.com for more information or contact your local Jotun representative.

Environmental Product Declaration (EPD) is available at www.epd-norge.no

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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

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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