Technical Data Sheet

Pilot WF

Product description

This is a one component waterborne acrylic emulsion coating. It is a versatile, fast drying product for exterior and 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. This product is part of a complete system which is certified not to spread surface flames.

Typical use

Protective:
Suitable as topcoat in systems for a wide range of industrial structures, structural steel, piping and concrete. Recommended for refineries, power plants, bridges, buildings and mining equipment. Recommended for accommodation and working spaces.

Marine:
Suitable as topcoat in systems for a wide range of marine structures. Recommended for accommodation and engine rooms.

Approvals and certificates

Certified in accordance with IMO 2010 FTP code – Low Flame Spread

Consult your Jotun representative for details.

Additional certificates and approvals may be available on request.

Other variants available

Pilot WF Alu

Refer to separate TDS for each variant.

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	ISO 3233	39 ± 2 %
Gloss level (GU 60 °)	ISO 2813	semi gloss (35-70)
Flash point	ISO 3679 Method 1	101 °C
Density	calculated	1.2 kg/l

Region	Regulation	Test Standard	VOC Value
US	CARB(SCM)2020 / SCAQMD rule 1113	Calculated	123 g/l
Hong Kong	Air Pollution Control (VOC) Regulation	Calculated	123 g/l
EU	European Paint Directive 2004/42/CE	Calculated	49 g/l

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

EU IED	Industrial Emission Directive 2010/75/EU	Calculated	57 g/l
Korea	Korea Clean Air Conservation Act	Calculated	123 g/l
China	GB 30981-2020 Limit of harmful substances of industrial protective coatings	GB/T 23986-2009 10.4	31 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.

The VOC values refer to white colour.

Film thickness per coat

Typical recommended specification range

Dry film thickness	40	-	80	µm
Wet film thickness	105	-	205	µm
Theoretical spreading rate	9.8	-	4.9	m²/l

Bright colours may need film thickness in the high end of the recommended specification range to achieve opacity.

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.

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Product mixing

Single pack

Thinner/Cleaning solvent

Thinner: 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	30 min	25 min	15 min
Walk-on-dry	2 h	1 h	1 h
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.

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.

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	5 / 20	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.

Protect from freezing at all times during storage and transport.

Shelf life at 23 °C

Pilot WF 24 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

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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

Caution

This product is for professional use only. The applicator and operator 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 should 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 in 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 sought medical attention 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 data given 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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