Pilot WF Alu

Product description

This is a one component water borne acrylic emulsion coating. It is a versatile, fast drying product for exterior and interior use. It has an aluminum finish. It has good color and gloss retention. Dries down to 50 °F (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 water borne system with a recommended Jotun water borne primer.

Typical use

Protective:
Suitable as topcoat in systems for a wide range of industrial structures, structural steel, piping and concrete in corrosivity categories up to very high C5 (ISO 12944-2). Recommended for refineries, power plants, bridges and buildings. Recommended for accommodation and working spaces.

Approvals and certificates

This product contributes to the Green Buildings Standard credits. Please see section Green Building Standards.

Additional certificates and approvals may be available on request.

Colors

RAL 9006, RAL 9007

Product data

Property	Test/Standard	Description
Solids by volume	ISO 3233	35 ± 2 %
Gloss level (GU 60 °)	ISO 2813	semi gloss (35-70)
Density	calculated	1.1 kg/l
VOC-US/Hong Kong	US EPA method 24 (tested) (CARB(SCM)2007, SCAQMD rule 1113, Hong Kong)	1.63 lbs/gal

The provided data is typical for factory produced products, subject to slight variation depending on color.
Gloss description: According to Jotun Performance Coatings' definition.

Note: The gloss may vary depending on the application method.

Film thickness per coat

Typical recommended specification range

Dry film thickness	1.2 mils (30 µm)	- 2.8 mils (70 µm)
Wet film thickness	3 mils (85 µm)	- 8 mils (200 µm)
Theoretical spreading rate	480 ft²/gal (11.7 m²/l)	- 200 ft²/gal (5 m²/l)

Surface preparation

To secure lasting adhesion to the subsequent product all surfaces shall be clean, dry and free from any contamination.

Surface preparation summary table

Substrate	Surface preparation	
	Minimum	Recommended
Coated surfaces	Clean, dry and undamaged compatible coating (ISO 12944-4 6.1.4)	Clean, dry and undamaged compatible coating (ISO 12944-4 6.1.4)

Application

Application methods

The product can be applied by

Spray:	Use air spray or airless spray.
Brush:	May be used. Care must be taken to achieve the specified dry film thickness.
Roller:	May be used. Care must be taken to achieve the specified dry film thickness.

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

Guiding data for air spray

Nozzle tip:	11-19 (HVLP) 1.1-1.9 mm (pressure pot)
Pressure at nozzle (minimum):	2.1 bar / 30 psi (HVLP) 2.1 bar / 30 psi (pressure pot)

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	10 °C	23 °C	40 °C
Surface (touch) dry	30 min	25 min	15 min
Walk-on-dry	2 h	1 h	1 h
Dried 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 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.

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.

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 water borne 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 water borne 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 (liters)	Size of containers (liters)
Pilot WF Alu	5 / 20	5 / 20

5 l = 1.32 gal
20 l = 5.28 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.

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.

Protect from freezing at all times during storage and transport.
Temperature during storage and transport not to exceed 35 °C.

Shelf life at 73°F (23 °C)

Pilot WF Alu	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.

Green Building Standards

This product contributes to Green Building Standard credits by meeting the following specific requirements:

LEED®v4 (2013)
EQ credit: Low emitting materials
- VOC content for Industrial Maintenance Coatings (250 g/l) (CARB(SCM)2007) and emission 0.5 - 5.0 mg/m³ (CDPH method 1.1).
MR credit: Building product disclosure and optimization
- Material Ingredients, Option 2: Material Ingredient Optimization, International Alternative Compliance Path - REACH optimization: Fully inventoried chemical ingredients to 100 ppm and not containing substances on the REACH Authorization list – Annex XIV, the Restriction list – Annex XVII and the SVHC candidate list.
- Environmental Product Declarations. Product-specific Type III EPD (ISO 14025;21930, EN 15804).

LEED® (2009)
- IEQ Credit 4.2: The VOC requirements of Green Seal Standard GC-03, 1997.

BREEAM® International (2016)
- Mat 01: Product-specific Type III EPD (ISO 14025;21930, EN 15804).

BREEAM® International (2013)
- Hea 02: VOC content for One-pack performance coating WB (140 g/l) (EU Directive 2004/42/CE)

BREEAM® NOR (2012)
- Hea 9: VOC content for One-pack performance coatings WB (140 g/l) (EU Directive 2004/42/CE) and emission demands (ISO 16000-9/10)
- Mat 1.5: This product Safety Data Sheet confirms that the product does not contain any substances on the Norwegian A20 list.

This product is tested by RISE Research Institutes of Sweden/SP Technical Research Institute of Sweden or Eurofins in accordance with the ISO 16000-8/9 (2006) and passes the demands of the French AFSSET (2011), German AgBB (2017) and Belgian decree (2014).

The EPDs are available at www.epd-norge.no

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.

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.

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.