

Pilot ACR

Product description

This is a one component physically drying acrylic coating. It has a semi gloss finish with good gloss retention. It is fast drying. It can be used direct to metal. To be used as topcoat in atmospheric environments. It can be applied at sub zero surface temperatures.

Typical use

Protective:

Recommended for refineries, power plants, bridges and buildings. Suitable for a wide range of industrial structures.

Marine:

Recommended for topside and superstructure.

Approvals and certificates

Low flame spread certificate according to IMO/Solas directive

Grain, Newcastle Occupational Health

Low flame spread certificate according to IMO FTPC part 2 MSC61 (67)

Additional certificates and approvals may be available on request.

Colours

according to colour card and Multicolor Industry tinting system (MCI)

Product data

Property	Test/Standard	Description
Solids by volume	ISO 3233	55 ± 2 %
Gloss level (60 °)	ISO 2813	semi gloss (35-70)
Flash point	ISO 3679 Method 1	25 °C
Specific gravity	calculated	1,49 kg/l
VOC-USA / VOC-Hong Kong	EPA Method 24	400 g/l
VOC-Solvent Emission Directive	SED (1999/13/EC)	266 g/kg

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

Gloss level: According to Jotun Performance Coatings' definition.

Recommended film thickness per coat

Film thickness and spreading rate	Dry film thickness	Wet film thickness	Theoretical spreading rate (m ² /l)
	(µm)	(µm)	
Minimum	60	110	9,2
Maximum	120	220	4,6
Typical	120	220	4,6

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
Carbon steel	St 2 (ISO 8501-1)	Sa 2½ (ISO 8501-1)
Shop primed steel	Clean, dry and undamaged shop primer (ISO 12944-4 6.1)	Clean, dry and undamaged shop primer (ISO 12944-4 6.1)
Coated surfaces	Clean, dry and undamaged compatible coating (ISO 12944-4 6.1)	P Sa 2½ (ISO 8501-2)

Application

Application methods

The product can be applied by

- Spray: Use airless spray (thin 5 %).
- Brush: Use a suitable brush. Care must be taken to achieve the specified dry film thickness.
- Roller: May be used, but is not recommended for first coat on bare metal. Care must be taken to achieve the specified dry film thickness.

Product mixing ratio (by volume)

Single pack

Thinner/Cleaning solvent

Thinner: Jotun Thinner No. 7

Guiding data for airless spray

Nozzle tip (inch/1000): 15-21

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

Drying and Curing time

Substrate temperature	-10 °C	0 °C	5 °C	10 °C	23 °C	40 °C
Surface (touch) dry	30 min	30 min	20 min	15 min	15 min	15 min
Walk-on-dry	7 h	7 h	7 h	5 h	4 h	4 h
Dry to over coat, minimum	3 h	3 h	3 h	2 h	1 h	1 h

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

Surface (touch) dry: The state of drying when slight pressure with a finger does not leave an imprint or reveal tackiness. Dry sand sprinkled on the surface can be brushed off without sticking to or causing damage to the surface.

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

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

Heat resistance

	Temperature	
	Continuous	Peak
Dry, atmospheric	60 °C	60 °C

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: epoxy, epoxy mastic, acrylic
Subsequent coat: acrylic

Packaging (typical)

	Volume (litres)	Size of containers (litres)
Pilot ACR	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, 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 ACR

48 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

Products primarily meant for use as primers and 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.