

Jota AY30T WF

Product description

This is a one component waterborne acrylic emulsion coating. It is a versatile, fast drying product for exterior use. It has a semi gloss finish with very good gloss retention. It can be used direct to metal. To be used as topcoat in atmospheric environments. It also can be used as a part of a complete waterborne system with a recommended Jotun waterborne primer.

Typical use

Protective:

Suitable for a wide range of industrial structures and industrial steel to be exposed to corrosive environments. Recommended for a wide range of equipment including but not limited to engines, machinery, carriage, special vehicle, etc.

Colours

According to colour card and Multicolor WF tinting system

Product data

| Property | Test/Standard | Description |
|-----------------------|---------------|--------------------|
| Solids by volume | ISO 3233 | 42 ± 2 % |
| Gloss level (GU 60 °) | ISO 2813 | semi gloss (35-70) |
| Density | calculated | 1.2 kg/l |

| Region | Regulation | Test Standard | VOC Value |
|--------|---|---------------------|-----------|
| China | GB 30981-2020 Limit of harmful substances of industrial protective coatings | GB/T 23985-2009 8.4 | 129 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.

Film thickness per coat

Typical recommended specification range

| | | |
|----------------------------|-----------|-------------------|
| Dry film thickness | 40 - 100 | µm |
| Wet film thickness | 100 - 240 | µm |
| Theoretical spreading rate | 10 - 4 | m ² /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 |
| Carbon steel | St 2 (ISO 8501-1) | Sa 2½ (ISO 8501-1) |
| Aluminium | The surface shall be hand or machine abraded with non-metallic abrasives or bonded fibre machine or hand abrasive pads to impart a scratch pattern to the surface. | Abrasive blast cleaning to achieve a surface profile using non-metallic abrasive media which is suitable to achieve a sharp and angular surface profile. |
| Coated surfaces | Clean, dry and undamaged compatible coating | P Sa 2½ (ISO 8501-2) |

Application

Application methods

The product can be applied by

| | |
|---------|--|
| Spray: | Use air spray or 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

Thinner/Cleaning solvent

Thinner: Deionized water

Guiding data for airless spray

Nozzle tip (inch/1000): 13-17
Pressure at nozzle (minimum): 150 bar/2100 psi

Guiding data for air spray

Nozzle tip: Pressure pot: 1.2-2.0 (mm)
Pressure at nozzle (minimum): Pressure pot: 2.1 bar/30 psi

Drying and Curing time

| Substrate temperature | 5 °C | 10 °C | 23 °C | 40 °C |
|---------------------------|------|-------|--------|--------|
| Surface (touch) dry | 4 h | 3 h | 30 min | 15 min |
| Walk-on-dry | 6 h | 5 h | 1 h | 1 h |
| Dry to over coat, minimum | 12 h | 8 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.

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 | 80 °C | - |

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

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) |
|---------------|----------------------------|--|
| Jota AY30T WF | 20 | 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.
Recommended storage temperature is between 5 °C and 35 °C.

Shelf life at 23 °C

Jota AY30T WF 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

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.
