

Technical Data

WATERFINE TOPCOAT



Product description

WaterFine Topcoat is an one-pack hard and glossy topcoat based on an acrylic emulsion.

Recommended use

As topcoat on water borne primer or intermediate coat in a complete water borne corrosion resistant paint system. High gloss and very good weather properties. Can also be used in combination with suitable solvent borne/solvent free primer/undercoat, and as maintenance coating on a wide range of topcoats.

Film thickness and spreading rate

	Minimum	Maximum	Typical
Film thickness, dry (μm)	40	80	60
Film thickness, wet (μm)	110	220	170
Theoretical spreading rate (m^2/l)	8,8	4,4	5,8

Comments

VOC: 119 g/l (Actual).

Physical properties

Colour	According to colour card and Multicolor Aqua tinting system
Solids (vol %)*	35 \pm 2
Gloss	Glossy
Gloss retention	Excellent
Water resistance	Good
Chemical resistance	Good
Flexibility	Excellent

*Measured according to ISO 3233:1998 (E)

Surface preparation

All surfaces should be clean, dry and free from contamination. The surface should be assessed and treated in accordance with ISO 8504.

Coated surfaces

Clean, dry and undamaged compatible primer. Contact your local Jotun office for more information.

Other surfaces

The coating may be used on other substrates. Please contact your local Jotun office for more information.

Condition during application

The temperature of the substrate should be minimum 5°C and at least 3°C above the dew point of the air, temperature and relative humidity measured in the vicinity of the substrate. Good ventilation is usually required in confined areas to ensure proper drying. Risk of dry spraying when applying at low relative humidity (below 30 %).

Application methods

Spray	Use airless spray or conventional spray
Brush	Recommended for stripe coating and small areas, care must be taken to achieve the specified dry film thickness.
Roller	May be used for small areas but not recommended for first primer coat, however when using roller application care must be taken to apply sufficient material in order to achieve the specified dry film thickness.

Application data

Mixing ratio (volume)	Single pack.
Thinner/Cleaner	Water. Fresh clean water
Guiding data airless spray	
Pressure at nozzle	15 MPa (150 kp/cm ² 2100 psi)
Nozzle tip	0.38-0.53 mm (0.015 - 0.021")
Spray angle	40-80°
Filter	Check to ensure that filters are clean.

Drying time

Drying times are generally related to air circulation, temperature, film thickness and number of coats, and will be affected correspondingly. The figures given in the table are typical with:

- * Good ventilation (Outdoor exposure or free circulation of air)
- * Typical film thickness
- * One coat on top of inert substrate
- * Relative humidity 70%

Substrate temperature	5°C	10°C	23°C	40°C
Surface dry	90 min	30 min	25 min	20 min
Through dry	6 h	1,5 h	1 h	1 h
Dry to recoat, minimum	8 h	2,5 h	1,5 h	1 h

The given data must be considered as guidelines only. The actual drying time/times before recoating may be shorter or longer, depending on film thickness, ventilation, humidity, underlying paint system, requirement for early handling and mechanical strength etc. A complete system can be described on a system sheet, where all parameters and special conditions could be included.

Typical paint system

Corrosivity category C4 (ISO 12944):

WaterFine Primer	2 x 60 µm	(Dry Film Thickness)
WaterFine Topcoat	1 x 50 µm	(Dry Film Thickness)

Corrosivity category C5-I (ISO 12944)

WaterFine Barrier	1 x 50 µm	(Dry Film Thickness)
WaterFine Primer	1 x 120 µm	(Dry Film Thickness)
WaterFine Topcoat	1 x 80 µm	(Dry Film Thickness)

Other systems may be specified, depending on area of use

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 (Kraftvask), then circulate Jotun Thinner No. 4 and finally Jotun Thinner No. 17.

Storage

Storage conditions are to keep the container in a dry, cool well ventilated space and away from source of heat and ignition and in accordance to national regulations. Containers must be kept tightly closed and kept away from freezing.

Shelf life is minimum 12 months at 23°C. Subject to re-inspection thereafter. Storage at elevated temperatures will reduce product shelf life significantly.

Handling

Handle with care. Stir well before use.

Packing size

20 litre container

Packing may vary from country to country according to local requirements.

Health and safety

Please observe the precautionary notices displayed on the container. Use under well ventilated conditions. Do not breathe or inhale 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.

For detailed information on the health and safety hazards and precautions for use of this product, we refer to the Material Safety Data Sheet.

DISCLAIMER

The information in this data sheet is given to the best of our knowledge based on laboratory testing and practical experience. However, as the product is often used under conditions beyond our control, we cannot guarantee anything but the quality of the product itself. We reserve the right to change the given data without notice.

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