

Technical Data

WATERFINE SPECIAL



Product description

WaterFine Special is a two-pack water borne epoxy intermediate paint which cures down to 5°C.

Recommended use

As an intermediate paint for both water borne and hybrid systems in aggressive environments above the waterline and to be used as a tie coat between some solvent borne and water borne paints.

Film thickness and spreading rate

	Minimum	Maximum	Typical
Film thickness, dry (µm)	60	125	80
Film thickness, wet (µm)	125	260	170
Theoretical spreading rate (m ² /l)	8	3,8	6

Comments

VOC: 72,5 g/l (Actual).

Physical properties

Colour	Grey, White
Solids (vol %)*	48 ± 2
Flash point	Non flammable
Gloss	Flat
Water resistance	Good
Flexibility	Good

*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 required in confined areas to ensure correct drying.

Application methods

Spray	Use airless spray
Brush	Recommended for stripe coating and small areas, care must be taken to achieve the specified dry film thickness.
Roller	May be used. 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)	12.8 litres of Comp. A to be thoroughly mixed with 7.2 litres of Comp. B. To secure proper mixing a mechanical stirrer should be used during the mixing of the two components.
Induction time	30 minutes.
Pot life (23°C)	3 hours
Cleaner	Fresh clean water, Jotun Thinner No. 4 or No. 17
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	Make certain that the filters are perfectly 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	7 h	2 h	1,5 h	1 h
Through dry	7 d	3 d	0,5 d	0,3 d
Cured	20 d	14 d	7 d	5 d
Dry to recoat, minimum	10 h	8 h	2 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 C5-I (ISO 12944)

Water borne system:

WaterFine Zn Primer	1 x 40 µm	(Dry Film Thickness)
WaterFine Special	1 x 90 µm	(Dry Film Thickness)
WaterFine Special	1 x 70 µm	(Dry Film Thickness)
WaterFine Topcoat	1 x 50 µm	(Dry Film Thickness)

Hybrid system:*		
Jotamastic 87	1 x 200 µm	(Dry Film Thickness)
WaterFine Special	1 x 40 - 80 µm	(Dry Film Thickness)
WaterFine Topcoat	1 x 50 µm	(Dry Film Thickness)

* WaterFine Special used as tie-coat between solvent-borne and water borne-coating.

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 at minimum 23°C: Comp. A, 2 years; Comp. B, 1 years. 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 unit: 12.8 litres Comp. A in a 20 litre container and 7.2 litres Comp. B in a 10 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.

Footer - English

Head Office & Nordic	Europe	Middle East	South East Asia
Jotun A/S	Jotun Paints (Europe) Ltd.	Jotun U.A.E Ltd. LLC.	Jotun (Singapore) Pte. Ltd.
P.O. Box 2021	Stather Road, Flixborough		No 11-15, Sixth Lok Yang
N-3248 Sandefjord	North Lincolnshire DN15	Al Quoz Industrial Area	Road
Norway	8RR	P.O Box 3671	Jurong
Phone +47 33 45 70 00	United Kingdom	Dubai U.A.E	Singapore 628 111
Fax +47 33 46 46 13	Phone +44 172 44 00 000	Phone +971 4 3 39 50 00	Phone +65 6265 4711
	Fax +44 172 44 00 100	Fax +971 4 3 38 06 66	Fax +65 6265 7484

Jotun is a World Wide company with factories, sales offices and stocks in more than 50 countries. For your nearest local Jotun address please contact the nearest regional office or visit our website at www.jotun.com

ISSUED 30 APRIL 2004 BY JOTUN
THIS DATA SHEET SUPERSEDES THOSE PREVIOUSLY ISSUED