

Technical Data

Jotaprime 500



Product description

Jotaprime 500 is a two-pack, anti-abrasion, polyamine cured epoxy-based primer for both immersed and non-immersed areas.

Recommended use

Anti-corrosive coating for newbuilding situations as well as for maintenance on both above and below water areas excluding water ballast tanks. To be used on steel alone or in combinations with other coatings. Aluminium versions for use below water.

Film thickness and spreading rate

	Minimum	Maximum	Typical
Film thickness, dry (μm)	100	200	150
Film thickness, wet (μm)	140	280	210
Theoretical spreading rate (m^2/l)	7,1	3,55	4,73

Comments

For DFTs below 150 μm , thinner should be used.

Physical properties

Colour	Red, Aluminium and aluminium red toned, Grey
Solids (vol %)*	72 ± 2
Flash point	28°C ± 2 (Setaflash)
VOC	2,34 lbs/gal (280 gms/ltr) USA-EPA Method 24 245 gms/ltr UK-PG6/23(97). Appendix 3
Gloss	Semigloss
Gloss retention	Fair
Water resistance	Good
Abrasion resistance	Good
Solvent resistance	Good
Chemical resistance	Fair
Flexibility	Good

*Measured according to ISO 3233:1998 (E)

Hong Kong rules:

Category of paints - Other vessel coatings; VOC 280 gms/ltr HK EPD method (Ready to use); Exempt compound - N/A; Specific gravity: 1.45 kg/ltr (A+B); Both VOC and Specific gravity values provided are typical values, subject to changes when different colour involved.

Surface preparation

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

Bare steel

Cleanliness: Blast-cleaning to Sa 2½ (ISO-8501-1:2007). Power tool cleaning to min. St 2 (ISO 8501-1:2007) may be acceptable for minor touch-up work, subjected to exposure conditions.

Shopprimed steel

Clean, dry and undamaged approved shopprimer.

Coated surfaces

Clean, dry and undamaged compatible primer. Old existing coating systems can be overlapped, but feathering of edges should be carried out. Please 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 minimum 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 proper drying. Do not use heated air until the solvents have evaporated from the paint film to avoid surface drying and solvent entrapment. The coating should not be exposed to strain until cured.

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)	4:1
Mixing	4 parts Comp. A (base) to be mixed thoroughly with 1 part Jotaprime 500, Comp. B (curing agent).
Pot life (23°C)	1 hour (Reduced at higher temperature)
Thinner/Cleaner	Jotun Thinner No. 17
Guiding data airless spray	
Pressure at nozzle	15 MPa min (150 kp/cm ² , 2100 psi.)
Nozzle tip	0.43-0.64 mm (0.017-0.025").
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

Substrate temperature	-5°C	0°C	5°C	10°C	23°C
Surface dry	20 h	14 h	6 h	4 h	2 h
Through dry ¹	48 h	30 h	16 h	10 h	4 h
Cured		21 d	14 d	10 d	7 d
Dry to recoat, minimum	48 h	30 h	16 h	10 h	4 h
Substrate temperature	40°C				
Surface dry	1 h				
Through dry ¹	2 h				
Cured	3 d				
Dry to recoat, minimum	2 h				
Dry to recoat, maximum					

- 1 Provided the surface is free from chalking and other contamination prior to application, there is normally no overcoating time limit. Best intercoat adhesion occurs, however, when the subsequent coat is applied before preceding coat has cured. If the coating has been exposed to direct sunlight for some time, special attention must be paid to surface cleaning and mattening/removal of the surface layer in order to obtain good adhesion.

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

Non-immersed areas:

Jotaprime 500	2 x 125 µm	(Dry Film Thickness)
Hardtop AS/XP	1 x 50 µm	(Dry Film Thickness)

Immersed areas:

Jotaprime 500 Aluminium	2 x 150 µm	(Dry Film Thickness)
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Other systems may be specified, depending on area of use

Storage

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

Handling

Handle with care. Stir well before use.

Packing size

20 litre unit: 16 litres Jotaprime 500, Comp. A (base) in a 20 litre container and 4 litre Jotaprime 500, Comp. B (curing agent) in a 5 litre container

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 can be used under conditions beyond our control, we can only guarantee the quality of the product itself. We also reserve the right to change the given data without notice. Minor product variations may be implemented in order to comply with local requirements.

If there is any inconsistency in the text the English (UK) version will prevail.

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