

Technical Data

Jotaprime 505



Product description

Jotaprime 505 is an amine adduct cured, non-inhibitive epoxy primer.

Recommended use

Primer for porous/non-porous substrates. May be used as a holding primer for some tank lining.

Film thickness and spreading rate

	Minimum	Maximum	Typical
Film thickness, dry (µm)	40	75	50
Film thickness, wet (µm)	85	160	105
Theoretical spreading rate (m ² /l)	11,8	6,3	9,4

Approvals

APAS approved to specification 2972 & 2974.

Physical properties

Colour	White
Solids (vol %)*	47 ± 2
Flash point	21°C ± 2 (Setaflash)
VOC	430 gms/ltr UK-PG6/23(97). Appendix 3
Gloss	Flat
Gloss retention	Limited
Water resistance	Very good
Abrasion resistance	Good
Solvent resistance	Excellent
Chemical resistance	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.

Bare steel

Cleanliness: Blast cleaning to Sa 2½ (ISO 8501-1:2007). Roughness: using abrasives suitable to achieve grade Fine to Medium S/G (30-85 µm, Ry5) (ISO 8503-2)

Other surfaces

For aluminium and galvanised surface; degreasing, light abrading or sweep blasting. For stainless steel; light abrading or sweep blasting using chloride free, non-metallic abrasive.

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

Condition during application

For steel substrate: The temperature of the substrate should be minimum 10°C and at least 3°C above the dew point of the air, temperature and relative humidity measured in the vicinity of the substrate. For Concrete: The moisture content in the concrete should not exceed 4 % (by weight). The coating should not be exposed to oil, chemicals or mechanical stress until fully cured.

Application methods

Spray	Use airless spray or conventional spray
Brush	Recommended for touch-up purposes.

Application data

Mixing ratio (volume)	4:1
Mixing	4 parts of Comp. A (base) to be mixed thoroughly with 1 part Jotaprime 505, Comp. B (curing agent).
Pot life (23°C)	8 hours
Thinner/Cleaner	Jotun Thinner No. 17
Guiding data airless spray	
Pressure at nozzle	9 - 15 MPa (1300 - 2170 psi)
Nozzle tip	0.015 - 0.019" (0.38 - 0.48 mm)
Spray angle	40° - 80°
Guiding data conventional spray	
Pressure at nozzle	0.25 - 0.35 MPa (40 - 50 psi)
Nozzle tip	0.071 - 0.091" (1.8 - 2.3 mm)
Note	Min. 60 mesh recommended, check to ensure filter is clean. When using conventional spray: thinning with up to 10% of the recommended thinner may be required for acceptable atomisation. Wetted parts should be corrosion resistant and suitable for use with chemical solvents. This method of application is suited to use on small or complex shapes where additional control is required.

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	10°C	23°C	40°C
Surface dry	1 h	0.5 h	0.25 h
Through dry	8 h	4 h	2 h
Cured	14 d	7 d	3 d
Dry to recoat, minimum	8 h	4 h	2 h
Dry to recoat, maximum ¹			

¹ The surface should be dry and free from any contamination prior to application of the subsequent coat.

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

Jotaprime 505	1 x 50 µm	(Dry Film Thickness)
Tankguard 412	2 x 250 µm	(Dry Film Thickness)
Jotaprime 505	1 x 50 µm	(Dry Film Thickness)
Tankguard 412	1 x 400 µm	(Dry Film Thickness)

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 Comp. A in a 20 litre container and 4 litres Jotaprime 505, Comp. B in a 5 litre container.
or
5 litre unit: 4 litres Comp. A in a 5 litre container and 1 litre Jotaprime 505, Comp. B in a 1 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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