

Technical Data

JOTACOTE UNIVERSAL



Product description

Jotacote Universal is a two-pack, abrasion resistant, high solids pure epoxy based primer/finish coat which may be applied in high film thickness.

Recommended use

A universal primer specifically designed for use in newbuilding situations. To be used on steel alone or in combination with various systems. If a cosmetic finish is required, it should be used together with a topcoat. Gives excellent corrosion protection both in salt and fresh water.

Film thickness and spreading rate

	Minimum	Maximum	Typical
Film thickness, dry (μm)	75	300	150
Film thickness, wet (μm)	105	415	215
Theoretical spreading rate (m^2/l)	9,6	2,4	4,8

Comments

* For DFTs below 150 μm thinner should be used

Physical properties

Colour	Aluminium, Grey, Red, Buff, Turquoise, Light Red
Solids (vol %)*	72 \pm 2
Flash point	35°C \pm 2 (Setaflash)
VOC	2,17 lbs/gal (260 gms/ltr) USA-EPA Method 24 240 gms/ltr UK-PG6/23(97). Appendix 3
Gloss	Semigloss
Gloss retention	Fair
Water resistance	Excellent
Abrasion resistance	Very good
Solvent resistance	Excellent
Chemical resistance	Excellent
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.

Bare steel

Cleanliness: Blast-cleaning to Sa 2½ (ISO-8501-1:1988). Power tool cleaning to min. St 2 (ISO 8501-1:1988) may be acceptable, subject to exposure conditions.

Shopprimed steel
Clean, dry and undamaged approved shopprimer.

Coated surfaces
Clean, dry and undamaged compatible primer. 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 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)	3 parts Comp. A (base) to be mixed thoroughly with 1 part Comp. B (curing agent)
Mixing	10 min prior to use
Pot life (23°C)	1½ hours (reduced at higher temperatures)
Thinner/Cleaner	Jotun Thinner No. 17
Guiding data airless spray	
Pressure at nozzle	15 MPa (150 kp/cm ² , 2100 psi)
Nozzle tip	0.43-0.79 mm (0.017-0.031")
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	8 h	5 h	2,5 h
Through dry ¹	48 h	30 h	16 h	10 h	5 h
Cured		21 d	14 d	10 d	7 d
Dry to recoat, minimum ²	24 h	18 h	10 h	7 h	4 h
Dry to recoat, maximum ³					

Substrate temperature	40°C
Surface dry	1 h
Through dry	2 h
Cured	3 d
Dry to recoat, minimum ²	2 h
Dry to recoat, maximum ³	

1. The earliest time interval that it is possible to exert mechanical strain on the coating, i.e. walk on to recoat.
2. The earliest time interval for recoating with the same generic type of paint. Note that the paint film is not hard at this time and can not withstand mechanical strain.
3. 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

Jotacote Universal	2 x 125 µm	(Dry Film Thickness)
Hardtop AS	1 x 50 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

18 litre unit: 13,5 litres Comp. A (base) in a 20 litre container and 4,5 litres Comp. B (curing agent) in a 5 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

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