

Technical Data

TANKGUARD 412



Product description

Tankguard 412 is a solvent-free, two-pack epoxy coating for storage tanks. This product is previously known as Jotacote 412.

Recommended use

Corrosion protection for the internal lining of steel storage tanks being resistant to crude oil and clean petroleum products - please contact Jotun for specific recommendations. Tankguard 412 is also approved for the storage of potable water- certificates of test to AS/NZS 4020 & BS 6920 are available.

Film thickness and spreading rate

	Minimum	Maximum	Typical
Film thickness, dry (μm)	200	500	250
Film thickness, wet (μm)	200	500	250
Theoretical spreading rate (m^2/l)	5	2	4

Approvals

APAS approved to specification 0213, 2974F & 2974P.

(These approvals are just a few examples of available approvals. Please contact Jotun for details)

Physical properties

Colour	Red, White
Solids (vol %) *	100 \pm
Flash point	>100°C (Setaflash)
VOC	40 gms/ltr UK-PG6/23(97). Appendix 3
Gloss	Glossy
Water resistance	Excellent
Abrasion resistance	Very good
Solvent resistance	Very good
Chemical resistance	Very good
Flexibility	Good

*Measured according to ISO 3233:1998 (E)

Surface preparation

Bare steel

Cleanliness: Blast cleaning to min. Sa 2 ½ (ISO 8501 1:1988). Roughness: using abrasives suitable to achieve Grade Medium G (50 - 85 μm , Ry5) (ISO 8503-2).

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 10°C and minimum 3°C above the dew point of the air. The temperature and the relative humidity should be measured in the vicinity of the substrate. Good ventilation is usually required in confined areas to ensure proper drying. With forced ventilation, avoid heated air at first as this may cause surface drying and solvent entrapment. The coating should not be exposed to oil, chemicals or mechanical stress until fully 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.

Application data

Mixing ratio (volume) 2 parts Comp. A (base) to be mixed thoroughly with 1 part Comp. B (curing agent).

Pot life (23°C) 1 hour (reduced at higher temperature).

Cleaner Jotun Thinner No. 4/17

Guiding data airless spray

Pressure at nozzle 25 - 35 MPa (3600 - 5000 p.s.i.)

Nozzle tip 0.53 mm - mm (0.021" - 0.026")

Spray angle 40° - 80°

Filter Min. 60 mesh recommended, check to ensure filter is 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	10°C	23°C	40°C
Surface dry	15 h	6 h	1.5 h
Through dry	30 h	12 h	4 h
Cured	15 d	7 d	4 d
Dry to recoat, minimum	30 h	12 h	4 h
Dry to recoat, maximum	96 h	48 h	18 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

Tankguard 412 2 x 250 microns (Dry Film Thickness)

Other systems may be specified, depending on area of use

SPECIAL WASHING PROCEDURES WHEN THIS PRODUCT IS USED IN TANKS FOR POTABLE WATER:

A suitable washing procedure depending on national rules may be required.

The following is a suggested washing procedure:

- Coating must be fully cured prior to any washing procedure
- High pressure fresh water wash the tank using a temperature of minimum 60C. An alternative is to steam clean the tank
- Fill the tank with fresh water for 24hours and empty
- High pressure fresh water wash at ambient temperature

The given data must be considered as guidelines only.

Other washing procedures may be acceptable, please contact your local Jotun representative for details.

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

10 litres Comp. A (Base) in a 20 litre container and 5 litres Std. 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

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

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