Technical Data Jotaguard 690



Product description

Jotaguard 690 is a two-pack, high solids polyamine cured pure epoxy based primer coating with excellent mechanical properties.

Recommended use

As a premium performance epoxy based coating to limit mechanical damage and subsequent corrosion. Particularly suitable for use as a cargo hold coating.

Film thickness and spreading rate

	Minimum	Maximum	Typical
Film thickness, dry (µm)	100	250	125
Film thickness, wet (µm)	135	335	165
Theoretical spreading rate (m²/l)	7,5	3	6
Comments			

For DFTs below 150 µm thinner should be used.

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Physical properties

 Colour
 Grey, Red

 Solids (vol %)*
 75 ± 2

Flash point $33^{\circ}\text{C} \pm 2 \text{ (Setaflash)}$

VOC 1,75 lbs/gal (210 gms/ltr) USA-EPA Method 24

225 gms/ltr UK-PG6/23(97). Appendix 3

Gloss Semigloss

Gloss retention Fair

Water resistance Very good
Abrasion resistance Excellent
Solvent resistance Excellent
Chemical resistance Excellent
Flexibility Good

Compatibility with

cathodic protection Good

Hong Kong rules: Category of paints - Other vessel coatings; VOC 225 gms/ltr HK EPD method (Ready to use); Exempt compound - N/A; Specific gravity: 1,59 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 21/2 (ISO-8501-1:2007).

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.

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^{*}Measured according to ISO 3233:1998 (E)

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) 3:1

Mixing 3 parts Comp. A (base) to be mixed thoroughly with 1 part Jotaguard 690/690 S,

Comp. B (curing agent).

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

Thinner/Cleaner Jotun Thinner No. 17

Guiding data airless spray

Pressure at nozzle 15 MPa (150 kp/cm², 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	10°C	23°C	40°C
Surface dry	20 h	14 h	5 h	2,5 h	1 h
Through dry ¹	48 h	24 h	10 h	5 h	2 h
Cured		28 d	8 d	4 d	3 d
Dry to recoat, minimum ²	48 h	24 h	10 h	5 h	2 h
Durita nagat massimum 3					

Dry to recoat, maximum ³

- 1. The earliest time that it is possible to exert mechanical strain on the coating, i.e. walk on to recoat.
- 2. The earliest time 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.

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Typical paint system

In cargo holds:

Jotaguard 690 S 1 x 125 µm (Dry Film Thickness)

1 x 125 µm (Dry Film Thickness)

1 x 125 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: 15 litres Jotaguard 690 Comp. A in a 20 litre container and 5 litres Jotaguard 690/ 690 S, Comp. B 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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ISSUED 25 FEBRUARY 2011 BY JOTUN THIS DATA SHEET SUPERSEDES THOSE PREVIOUSLY ISSUED

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