

Technical Data

Jotaguard 660



Product description

Jotaguard 660 is a two-pack, polyamine cured pure epoxy cargo hold coating with tolerance to typical maintenance surfaces and high abrasion resistance.

Recommended use

A high performance epoxy based coating providing very good protection to areas subjected to mechanical damage and corrosive exposure. Particularly suitable for use as a cargo hold coating on steel structures in both new building and maintenance situations.

Film thickness and spreading rate

	Minimum	Maximum	Typical
Film thickness, dry (μm)	100	250	125
Film thickness, wet (μm)	140	345	175
Theoretical spreading rate (m^2/l)	7,2	2,9	5,8

Comments

For DFTs below 150 μm thinner should be used.

Physical properties

Colour	Grey, Red
Solids (vol %)*	72 ± 2
Flash point	31°C ± 2 (Setaflash)
VOC	2 lbs/gal (240 gms/ltr) USA-EPA Method 24 260 gms/ltr UK-PG6/23(97). Appendix 3
Gloss	Semigloss
Gloss retention	Fair
Water resistance	Very good
Abrasion resistance	Very good
Solvent resistance	Very good
Chemical resistance	Very good
Flexibility	Good
Compatibility with cathodic protection	Good

*Measured according to ISO 3233:1998 (E)

Hong Kong rules: Category of paints - Other vessel coatings; VOC 260 gms/ltr HK EPD method (Ready to use); Exempt compound - N/A; Specific gravity: 1.37 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: Power tool cleaning to min. St 2, mill scale free (ISO 8501-1:2007). Improved surface treatment (blast cleaning to Sa 2½) will improve the performance. In case of waterjetting the flash rust degree shall not exceed M (moderate) in SSPC and NACE standards for waterjetted surfaces.

Shopprimed steel

Clean, dry and undamaged approved shopprimer.

Coated surfaces

Clean, dry and undamaged compatible primer. Contact your local Jotun office for more information. For maintenance UHPWJ to WA2 and flash rust level medium (NACE No.5/SSPC-SP 12) or Power tool cleaning to min. St 2 for rusted areas.

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)	3:1
Mixing	3 parts Jotaguard 660 Comp. A (base) to be mixed thoroughly with 1 part Jotaguard 660, 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/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	10°C	23°C	40°C
Surface dry	22 h	14 h	5 h	2,5 h	1 h
Through dry ¹	48 h	24 h	10 h	5 h	2 h
Cured		32 d	14 d	7 d	4 d
Dry to recoat, minimum ²	48 h	24 h	10 h	5 h	2 h
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.

Typical paint system

Above water

Jotaguard 660	2 x 125 µm	(Dry Film Thickness)
or		
Jotaguard 660	1 x 125 µm	(Dry Film Thickness)
Jotaguard 690 S	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 660 Comp. A in a 20 litre container and 5 litres Jotaguard 660, 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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