

Transocean Optima 234

Product code:
TO 2.34

A tinfree, self erodable antifouling pigmented with a combination of biocides for the protection of the underwater hull of vessel against various types of fouling organisms such as barnacles and algae.

Typically offers protection up to 18 months in areas with moderate fouling pressure. Extended protection periods may be achieved in areas with a lower degree of fouling activity.

The product can be applied on all Transocean anticorrosive systems. Product complies to IMO Antifouling System Convention compliant (AFS/CONF/26).

Physical properties:

Colour	Redbrown, Pink, Pink, Black
Gloss / Appearance	Flat
Volume Solids	Approx. 60 %
Specific gravity	Approx. 1.71 g/ml
VOC	Approx. 371 g/liter
Flashpoint	> 25°C

Usage data:

Film thickness	Dry film thickness per coat (µm)	Wet film thickness per coat (µm)	Theoretical spreading rate (m ² /l)
Range	50 - 100	85 - 165	12.5 - 10.0
Recommended	75	125	8.0

Curing Times

	Substrate temperature		
	10°C	23°C	30°C
Touch dry	4 Hours	1 Hour	30 Minutes
Dry to handle	6 Hours	3 Hours	2 Hours
Minimum drying Time for undocking	16 Hours	12 Hours	8 Hours

Drying and curing times are determined under controlled temperatures and relative humidity below 85 %, and at average of the DFT range for the product and should be considered as guidelines only.

The actual drying time may be shorter or longer, depending on film thickness, temperature, ventilation, humidity, preceding paint system etc.

Recoating intervals - see application section

see application section		Substrate temperature							
		10°C		23°C		30°C			
Recoated with	Min	Max	Min	Max	Min	Max	Min	Max	
Single pack products	8 Hours	5 Days	6 Hours	5 Days	4 Hours	3 Days			
2-pack products	N/A	N/A	N/A	N/A	N/A	N/A			

Recoating information is given for guidance only and is subject to local climate and environmental conditions. Consult your local Transocean representative for specific recommendations.

As a general rule, the best intercoat adhesion is achieved when the subsequent coat is applied before the preceding coat has been fully cured. Extended recoating times should not be considered for other than ambient atmospheric exposure. After prolonged exposure times it may be necessary to roughen the surface to ensure intercoat adhesion.



Surface Preparation:

Coated substrates

All surfaces should be clean, dry and free from contamination. Surfaces should be treated in accordance with ISO 8504:2000. In case of repairing an existing antifouling system, remove salts, fouling, any loose paint and other contaminants by high pressure fresh water cleaning. A water pressure of 500 bar (approx. 7000 psi) is recommended.

Ensure compatibility of the old coated substrates with the selected paint system. Damaged areas must be treated and touched up with an appropriate primer system. Contact your local Transocean office for more information.

Undocking information

It is advised to undock the vessel after application of the final layer as quickly as possible, but no sooner than the minimum drying time for undocking (see table). Please note that undocking time stated refers to a single coat application. When multiple coats are applied, refloating times should be doubled. When in doubt, consult your nearest Transocean office.



Application:

Mixing:

This material is a one pack coating and should always be mixed thoroughly with a clean mechanical mixer before application.

Irrespective of the substrate temperature, the advised minimum temperature of the mixed paint is 15 °C. At lower temperatures, more thinner may be required to obtain a proper application viscosity, which may result in lower sag resistance and slower curing.

Conditions:

Unless mentioned separately, the relative humidity should be below 90% during application and curing. The temperature of the substrate should be min. 5°C and at least 3°C above the dew point of the air. Temperature and relative humidity should be measured in the vicinity of the substrate.

Methods:

Guiding data Airless spray	Pressure at nozzle	120 - 180 bar
	Nozzle size	0.41 - 0.58 mm (0.016 - 0.023 in.)
	Spray angle	40 - 80 degrees
	Volume of thinner	0 - 3%
Guiding data Airspray	Pressure	Not applicable
	Nozzle size	-
	Volume of thinner	-
Brush / Roller	Suitable.	
Thinner	Transocean Standard Thinner 6.01	
	Avoid excessive thinning as it will result in lower sag resistance and slower cure.	
	In addition it may cause solvent entrapment, possibly risking blistering, pinholing and/or other coating defects.	
Cleaner	Transocean Standard Thinner 6.01	



Additional Product information:

Storage and shelf life

The product must be stored in accordance with national regulations. The cans are to be kept in a dry, cool, well ventilated space and away from source of heat and ignition. Cans must be kept tightly closed and kept in original containers until required for use.

Partly used containers should be re-sealed securely and stored according to the recommended manner. (See section 7 of relevant SDS).

Health and safety

Observe the precautionary notices on the label of the container. A material safety data sheet is available upon request and national or local safety regulations should be followed. This product is intended for use by professional applicators.

As a general rule, avoid skin- and eye contact by wearing overalls, gloves, goggles, mask, etc. Spraying should be carried out under well-ventilated conditions. This product contains flammable materials and should be kept away from sparks and open flames. Smoking in the area should not be permitted. Avoid the inhalation of vapours and particulates by the provisions of good natural ventilation sufficient to keep air-borne concentrations below the Occupational Exposure Standards during the application and drying of paint films.

In operations where natural ventilation is insufficient to achieve this - e.g. painting work in enclosed areas - exposure should be controlled by the use of local exhaust ventilation. When this is not reasonably practicable, suitable respiratory protective equipment must be worn. For spray application or when OES's are likely to be exceeded, use the respiratory equipment as recommended in for instance BS4275:1974. This specification gives advice on selection, use and maintenance of various types of breathing apparatus. Protect other persons in the area.

Disclaimer

The information in this data sheet is provided to the best of our knowledge. However, we have no control over either quality or condition of the substrate and other factors affecting the use and application of this product. Therefore, we cannot accept any liability whatsoever or howsoever arising from the performance of the product or for any loss or damage arising from the use of this product. Users should first carry out their own trials to ascertain the suitability of the product for their intended purpose.

This Data Sheet supersedes all previous Data Sheets supplied to you relating to this product. It contains important information which must be communicated to the user. The user must satisfy himself of the suitability of the product for the intended application and surface, as surface and application conditions are beyond our control. The user must also satisfy himself of the suitability of the product in circumstances other than those set out in this data sheet. The user should also maintain appropriate control procedures. Should further information be required, please contact our Technical Department.

Transocean Coatings employ a policy of continuous development and the technical data could be revised as a result of experience or new information becoming available.

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