Transocean Cleanship 291

Product code:
TO 2.91

A tinfree polishing antifouling based on specially developed mixture of polymers and pigmented with a combination of biocides. The surface is self-abrasive by a careful adjusted balance of hydrophobic and hydrophilic binders. This mechanism enables leaching control and allows easy recoating after service life.
The product is suitable for upgrading existing longlife systems and is suitable to be used on a wide range of vessel types.
The product is compatible with Transocean Anticorrosive schemes and can be specified for drydocking intervals upto 60 months.
Product complies to IMO Antifouling System Convention compliant (AFS/CONF/26).

Physical properties:

Colour	Black, Blue, Pink, Redbrown
Gloss / Appearance	Flat
Volume Solids	Approx. 57 %
Specific gravity	Approx. 1.75 g/ml
VOC	Approx. 410 g/liter
Flashpoint	>25°C

Usage data:

Film thickness	Dry film thickness per coat (µm)	Wet film thickness per coat (µm)	Theoretical spreading rate (m²/l)
Range	75 - 150	130 - 265	7.6 - 3.8
Recommended	125	220	4.6

Curing Times	Substrate temperature			
	10°C	23°C	30°C	40°C
Touch dry	1 Hour	1 Hour	30 Minutes	20 Minutes
Dry to handle	8 Hours	6 Hours	4 Hours	3 Hours
Minimum drying time for undocking	16 Hours	12 Hours	12 Hours	10 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

	Substrate temperature							
	10°C		23°C		30°C		40°C	
Recoated with	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
Single pack products	8 Hours	6 Months	6 Hours	6 Months	4 Hours	4 Months	3 Hours	2 Months
2-pack products	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Recoating information is for guidance only and varies with local climate and environmental conditions. For specific recommendations, consult your local Transocean representative.
Best intercoat adhesion is achieved when the subsequent coat is applied before the preceding coat has fully cured. Extended recoating intervals apply only to ambient atmospheric exposure. After prolonged exposure, 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:

Conditions:

The relative humidity should be <90% during application and curing, unless otherwise specified in the product documentation. The substrate temperature should be ≥5°C and ≥3°C above the dew point of the air. Air temperature and relative humidity should be measured at substrate.
Generally, the maximum recommended surface temperature is 40°C. Higher substrate temperatures are acceptable provided dryspray is avoided by proper spray application and extra thinning if required. In extreme cases it may be necessary to reduce film thickness in order to avoid sagging.

Methods:

Guiding data Airless spray	Pressure at nozzle	120 - 180 bar
		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 but airless spray is preferred. Multicoats may be needed to achieve the specified dry film thickness. Volume of thinner: 0 - 5%.	
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

Storage: Store the product in compliance with national regulations in a dry, cool, well-ventilated area, away from heat and ignition sources. Keep materials in tightly closed original containers until use. Securely re-seal partially used containers and store as recommended. (See Section 7 of the relevant SDS.)

Shelf life: The stated value is a minimum; refer to “Guidance to Transocean Coatings Product Datasheets” for details.
Shelflife: Months

Health and safety

Observe the safety warnings on the container label. A Safety Data Sheet (SDS) is available upon request.Comply with all applicable national and local safety regulations.
For professional use only. Wear appropriate PPE (overalls, gloves, goggles, respiratory protection, etc.) to avoid skin and eye contact.
Spraying should be carried out under well-ventilated conditions. If the product is flammable (see label/SDS), keep away from sparks, open flames, and heat sources. No smoking in the work area.
Avoid inhaling vapors and particulates. Maintain airborne concentrations below Occupational Exposure Limits (OEL) through adequate natural ventilation during application and drying.
In enclosed areas with insufficient ventilation, use local exhaust ventilation. If this is not feasible, wear a suitable respirator. Users must be trained in its proper use and limitations.

Disclaimer

The information in this Product Data Sheet is provided in good faith and based on our current knowledge. However, Transocean Coatings cannot control substrate quality, surface preparation, application conditions, or environmental factors that may affect product application and performance. Accordingly, we accept no liability for the performance of this product or for any loss, damage, or injury arising from its use, whether direct, indirect, or consequential. Should any conflict arise between translations, the English version of this Product Data Sheet is authoritative and binding.

This Data Sheet supersedes all previous versions and must be communicated to all users. Users must:
- Conduct their own trials to verify the product’s suitability for their specific application and intended purpose.
- Confirm compatibility with intended substrates and conditions, which are beyond our control.
- Implement appropriate quality control procedures during application.
- Verify suitability for circumstances not covered in this Data Sheet.

Transocean Coatings maintains a policy of continuous product development. Technical data may be revised as new information or experience becomes available. For further information, contact our Technical Department.

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