

Transpoxy Primer

Product description.

A two pack polyamide cured epoxy primer with non-toxic pigments for the protection of steel structures against corrosion in industrial and marine environments. Suitable to be used as holding primer for refurbishment of large steel areas such as ship's hulls, cargo holds and decks. Transpoxy Primer can also be applied as a tiecoat on inorganic zinc silicates, providing an excellent base for further system build-up. It can be recoated with a wide range of Transocean products.

Physical properties

Product code	1.16
Colour	Red, Grey, selected other colours
Texture	Flat
Volume Solids	Approx. 45%
Specific gravity	Approx. 1.3 g/ml
VOC	Approx. 464 g/liter
Flashpoint	Base > 14 °C, Hardener > 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	30 - 60	65 - 135	15 - 7.5
Recommended	50	100	9.0

Mixing ratio By volume, base to hardener: 80 : 20

Curing Times

	Substrate temperature		
	10°C	23°C	30°C
Touch dry	90 Minutes	30 Minutes	20 Minutes
Dry to handle	8 Hours	4 Hours	3 Hours
Full cure	10 Days	7 Days	5 Days
Potlife	12 Hours	8 Hours	5 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/times may be shorter or longer, depending on film thickness, temperature, ventilation, humidity, preceding paint system etc.

Recoating intervals - see application section

Recoated with	Substrate temperature					
	10°C		23°C		30°C	
	Min	Max	Min	Max	Min	Max
Single pack products	-	-	-	-	-	-
2-pack products	24 Hours	Indefinite	8 Hours	Indefinite	6 Hours	Indefinite

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

As a general rule, the best intercoat adhesion is achieved when the subsequent coat is applied before the preceding coat has been fully cured. After prolonged exposure times it may be necessary to roughen the surface to ensure intercoat adhesion.

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Surface Preparation.

Steel - Blast cleaning

All surfaces should be clean, dry and free from contamination. Surfaces should be treated in accordance with ISO 8504:2000. All edges shall be ground to a minimum radius of 2 mm. Remove weld spatter and smooth weld seams by using disc grinders, chipping hammers or other suitable power tools. Sharp edges, weld seams, corners and other areas that are likely to receive less dry film thickness than specified, should be stripe coated.

The surfaces shall be blast-cleaned to min. Sa 2½ (ISO 8501-1:2007). The surface profile and the anchor pattern shall be between 40 µm and 70 µm.

The abrasives shall be free from oil, grease, moisture, chloride contamination etc.

Minor repair / Touch-up

All surfaces should be clean, dry and free from contamination. Surfaces should be treated in accordance with ISO 8504:2000. Any corroded areas should be prepared by power-tool cleaning or water jetting.

Power-tool cleaning to min. St 2, preferably St 3 (ISO 8501-1:2007). Care shall be taken to ensure that power-tool cleaning does not polish the steel surface. If the surface being prepared lies adjacent to a coated surface, the power tool cleaning shall overlap the coated surface by at least 25 mm and the coated surface shall be feathered.

Water jetting in accordance to ISO 8591-4: 2006 to a cleanliness of Wa 2 or better for atmospheric exposure. Acceptable flash rust degree is M (medium) but degree L (light) is preferred.

A water pressure of at least of 1000 bar (approx. 15.000 psi) is recommended.

Major repair/ Refurbishment

All surfaces should be clean, dry and free from contamination. Surfaces should be treated in accordance with ISO 8504:2000. Corroded areas to be prepared by blast cleaning or water jetting.

Blast Cleaning: The surfaces shall be blast-cleaned to min. Sa 2½ (ISO 8501-1:2007). The abrasives shall be free from oil, grease, moisture, chloride contamination etc.

Water jetting: Water jetting in accordance to ISO 8591-4: 2006 to a cleanliness of Wa 2,5. Acceptable flash rust degree is M (medium) but degree L (light) is preferred.

A water pressure of at least of 1000 bar (approx. 15.000 psi) is recommended.

Alternatively a suitable priming system can be used. When recoating zinc primed products, ensure the primer has been fully cured. Zinc salts products shall be removed by high pressure fresh water cleaning. Contact your local Transocean office for more information.

Galvanized steel

All surfaces should be clean, dry and free from contamination. Surfaces should be treated in accordance with ISO 8504:2000. So called 'white' zinc corrosion products should be removed by high pressure fresh water cleaning or blast cleaning. Blast cleaning shall be carried out by smooth sweep blasting, using a fine non-iron containing abrasive (e.g. aluminium oxide). The abrasives shall be free from oil, grease, moisture, chloride contamination etc. Surface roughness shall be in the range of 20 µm to 30 µm. Ensure the zinc layer shall not be damaged; a smooth uniform surface roughness shall be achieved. No defects such as break through or crisping of the zinc layer shall occur.

Stainless Steel

All surfaces should be clean, dry and free from contamination. Surfaces should be treated in accordance with ISO 8504:2000.

Blast cleaning shall be carried out by smooth sweep blasting, using a fine non-iron containing abrasive (e.g. aluminium oxide).

The abrasives shall be free from oil, grease, moisture, chloride contamination etc.

Surface roughness shall be in the range of 20 µm to 30 µm.

Application.

Mixing

The product is supplied in 2 containers as a unit. Always mix a complete unit in the proportions supplied. Do not mix more material than can be used within the specified pot life.

- Stir the base (Part A) with a clean mechanical mixer.
- Then add the entire contents of Curing Agent (Part B) and mix thoroughly.

Avoid too vigorous mixing as it leads to air inclusion, which may result in poor application results. If thinner is required, only add after mixing of the two components.

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

The temperature of the substrate should be at least 10°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.

In general, the maximum recommended surface temperature is 40°C. Higher steel temperatures are acceptable provided dry-spray 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.

When applying the paint in confined spaces, provide adequate ventilation during application and drying. Observe local regulations. Please contact your local Transocean representative for a specific recommendation.

Methods

Guiding data Airless spray	Pressure at nozzle	120 - 150 bar
	Nozzle size	0.38 - 0.53 mm
	Spray angle	40 - 80 degrees
	Volume of thinner	0 - 3%

Guiding data Airspray	Pressure	3 - 5 bar
	Nozzle size	1.2 - 2.0 mm
	Volume of thinner	0 - 10%

Brush / Roller Suitable for stripe coats and touch-up work only. Volume of thinner: 0 - 5%.

Thinner Transocean Epoxy Thinner 6.03
If thinning is necessary, this should be added after mixing of the two components. The recommended level of thinner is dependent on thickness and conditions. In certain circumstances, it may be required to exceed the stated level of thinner. However, as a general rule do 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 Epoxy Thinner 6.03.

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Film thickness.

The paint must be applied as a continuous layer and as close to the specified wet film thickness as possible. Use a wet film thickness gauge to verify that the correct wet film thickness is applied.

Over application, excessive thinning, wrong application techniques etc. may lead to runs and sagging of the paint. When the paint is still wet, such effects can be rectified by brushing out the defected areas.

When the defect is noticed after curing of the paint, repair the affected areas by disc sanding to an even smooth surface and apply an additional coat of paint.

Additional usage instructions

Recoating inorganic zinc silicates.

Ensure the zinc silicate should be fully cured prior to recoating. This can be checked by executing the MEK rub test according to ASTM 4752. After 50 double rubs with a cloth soaked in MEK, the zinc silicate coating should not dissolve.

In case MEK is not available, Transocean Thinner 6.07 or Thinner 6.08 may be used alternatively.

Un weathered zinc silicate films are porous and the porosity may vary according to the weather condition during application and the application technique. When recoating, the air in the pores will escape through the new coat of paint and may cause blisters or pinholes ("popping") in the coat just after application. To avoid this a mist coat/full coat technique is recommended.

First apply a thin coat of thinned Transoxy Primer (use 10-30 % Transocean Thinner 6.03) to fill the pores in the zinc silicate film. The amount of thinner required depends on various conditions such as level of porosity in the zinc silicate as well as local conditions.

Apply a few minutes later a coat of Transoxy Primer, which has been not thinned or thinned according the specifications in this datasheet, to full specified film thickness.

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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 MSDS).

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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