

Product Data Sheet

Transpoxy Masterbond 4.77

Product description.

High solids epoxy coating formulated with Masterbond binder technology. Transpoxy Masterbond offers excellent anticorrosive properties and has good adhesion to St3 prepared steel substrates. The product is flexible and compatible with most aged coating systems. The product cures down to temperatures of -10°C. Approved for grain carriage by Newcastle Occupational Health Agency.

Physical properties.

Colour/Texture Redbrown and Grey/Semi-gloss

Volume Solids 81%
Specific gravity 1.35 gr/ml
VOC 166 gr/liter
Flashpoint >25°C

	Dry film thickness per	Wet film thickness per	Theoretical spreading	
	coat (µ)	coat (µ)	rate (m²/l)	
Range	100 – 250	125 – 310	8.1 – 3.2	
Recommended	150	185	5.4	

Application data.

Mixing ratio By weight, base to hardener: 5 to 1.

By volume, base to hardener: 7 to 2.

Potlife -5°C: 8 hours, 10°C: 4 hours, 23°C: 2 hours.

Guiding data Airless spray Pressure at nozzle: 180 – 250 bar. Nozzle size: 0.41 - 0.58 mm.

Spray angle: 40 - 80 degrees. Volume of thinner: 0 - 5%.

<u>Brush/Roller</u> Suitable but airless spray is recommended. Multicoats are required to

achieve the specified dry film thickness. Volume of thinner: 0 - 10%.

<u>Thinner/Cleaner</u> Transocean Epoxy Thinner 6.03.

Conditions Humidity: below 85% RH.

Temperature of the paint before application: min: 10°C, max: 30°C.

Substrate temperature: min: -10°C, max: 30°C.

The temperature of the substrate should be at least 3°C above the dew point of the air. Air temperatures and relative humidity must be measured in the

vicinity of the substrate.

Drying and recoating times.

Substrate	Touch dry	Dry to handle	Full cure	Dry to recoat (1)		
temperature				Minimum	Maximum	Maximum
					with 1-pack.	with 2-pack
-5 °C	24 hours	48 hours	30 days	48 hours	15 days	Indefinite
5 °C	8 hours	20 hours	21 days	20 hours	10 days	Indefinite
10 °C	6 hours	18 hours	14 days	18 hours	10 days	Indefinite
23 °C	3 hours	12 hours	7 days	12 hours	10 days	Indefinite

⁽¹⁾ The surface should be dry and free from ice, grease and other contaminants prior to overcoating. The best intercoat adhesion is achieved when the subsequent coat is applied before the preceding coat is fully cured. After prolonged exposure or when maximum recoating time has exceeded it may be necessary to roughen the surface to ensure intercoat adhesion. When in doubt, consult your nearest Transocean office.

Surface preparation.

Steel Oil and grease should be removed by solvent cleaning according to SSPC-SP1.

Remove weld spatter and smooth weld seams and sharp edges as applicable.

Abrasive blasting: min. Sa2 - ISO 8501:1.

Apply Transpoxy Masterbond 4.77 immediately after the steel has been blasted

and the quality of preparation has been approved. Hydroblasting: DW-3 according to STG-2222.

Water pressure > 1000 bar (or 15000 psi)

Power tool cleaning: min. ISO-St3. Please note that better surface preparation

always results in longer lifetime expectations.

Repair Existing systems should be roughened and dry and free from loose paint, salt,

ice, grease and other contaminants prior to overcoating.

Corroded and/or damaged areas should be power tool cleaned to ISO-St2 or

better, blast cleaned to ISO-Sa2 or Hydroblasted to DW 2-3.

Recommended paint system.

A typical system for application at temperatures down to -5°C is shown below.

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 $2 \times 150 \mu dft$.

The coating can be left uncoated but may be recoated with Transpoxy-, Transurethane-, Transuniprene- or Transunilac Finishes.

Worldwide availability

The product is part of the common Transocean product range but local availability is subject to confirmation. Although we strive to supply the same product through the world, slight modifications of the product in some cases may be necessary in order to comply with local conditions and/or national regulations. In such cases an alternative datasheet will be issued.

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. Spillage on the skin should immediately be removed by thorough washing with lukewarm water and soap or a suitable industrial cleaner. Eyes should be flushed with fresh water and medical attention sought immediately. Spraying should be carried out under well-ventilated conditions. Avoid inhalation of solvent vapours and paint mist by wearing an air mask.

This product contains flammable materials and should be kept away from sparks and open flames. Smoking in the area should not be permitted.

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.

We reserve the right to change the product without notice.

Date of issue: February 2005.