



Product Data Sheet

Transozinc Silicate 1.52

Product description.

A self-curing ethylsilicate with a high zinc content for an excellent protection of steel structures against corrosion in industrial and marine environments. The product is abrasion resistant and offers good resistance against many solvents and chemicals. It can be left uncoated but may be recoated with Transpoxy, Transoprene or Transvinyl products. The product complies with SSPC Paint 20 Level 1 and ISO 12944.

Physical properties.

Colour / Texture	Grey / Matt
Volume Solids	55%
Specific gravity	2.3 gr/ml
VOC	434 gr/litre
Heat Resistance (dry)	400-450 °C
Flashpoint	>13 °C

	Dry film thickness per coat (μ)	Wet film thickness per coat (μ)	Theoretical spreading rate (m ² /l)
Range	50 – 100	90 –185	11.0 – 5.5
Recommended	75	140	7.0

Application data.

Mixing ratio By volume, binder to zinc paste: 2:3

The binder should be added gradually whilst stirring preferably by means of a mechanical mixer to the zinc paste. Keep stirring until mixture is lump-free. If necessary, remove coarse particles by sieving to avoid blockage of the spray equipment.

Pot-life 23°C: 8 hours, 30°C: 6 hours,

Guiding data - Airless spray Pressure. 120 - 150 bar. Nozzle size: 0.53 - 0.64 mm. Spray angle: 40 - 80 degrees. Volume of thinner: 0 - 3%

Guiding data - Airspray Pressure. 4 - 5 bar. Nozzle size: 1.8 - 2.2 mm. Use equipment with a low speed agitator. Volume of thinner: 0 – 10%.

Brush / Roller Only suitable for touch-up work.

Thinner / Cleaner Transocean Inorganic Zinc Thinner 6.07.

Drying and recoating times.

Substrate conditions	Dust dry	Hard Dry	Dry to recoat	
			Minimum	Maximum (2)
65% RH, 10 °C	60 minutes	6 hours	2 days	Indefinite
65% RH, 23 °C	30 minutes	4 hours	1 day	Indefinite
65% RH, 30 °C	15 minutes	2 hours	12 hours	Indefinite

- (1) 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, preceding paint system etc.
- (2) When recoated with itself, TO 1.52 should be applied wet on wet. When recoating with other products, the coating should be fully cured, dry and free from zinc salts and other contaminants. Curing can be checked by conduction the MEK rub test (ASTM D 4752). 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. Sa2,5 – ISO 8501:1. Apply Transozinc Silicate 1.52 immediately after the steel has been blasted and the quality of preparation has been approved.

Application conditions.

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. Zinc silicate paints in general requires moisture for curing. At low humidity the curing will be improved by gently sprinkling fresh water over the paint film, and/or by artificial humidification of the surrounding atmosphere. It is advised to consult your Transocean representative first before doing so. In warm climates it is recommended to keep the cans with the Silicate binder (part A) out of the sun. In order to have the best application result, it is advised to keep the temperature of binder part A below 30°C.

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.

Shelf life is dependent on storage temperature. Typical shelf life of binder part A is 6 months and of the zinc paste part B is 1 year at 25°C. Storage temperatures above 25°C may reduce the shelf life period and the binder part A should not be stored above 40°C.

Recommended paint system.

Transozinc Silicate 1.52 1 x 75 µ dft.
Can be left uncoated but may be recoated with Transpoxyl, Transvinyl or Transoprene products.

When recoating, the air in the pores of the zinc silicate coating may lead to bubbling ('popping') in fresh applied coating. To avoid this effect, it is advised to use the mist coat /full coat application technique.

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 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. 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.

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: July, 12.