

Transozinc Silicate Shopprimer 9153

Product description.

A highly durable ethylsilicate shopprimer with a reduced zinc dust content for an optimal balance between welding speed and corrosion protection. It can withstand exposure to atmospheric conditions for periods up to 12 months.

The product offers excellent heat resistance with little formation of zinc salts.

The primer can be recoated with Transpoxy, Transoprene or Transvinyl products.

Physical properties

Product code	91.53
Colour	Grey
Texture	Flat
Volume Solids	Approx. 25%
Specific gravity	Approx. 1.4 g/ml
VOC	Approx. 591 g/liter
Flashpoint	Binder > 13 °C, Zinc paste > 4 °C

Usage data

Film thickness	Dry film thickness per coat (µm)	Wet film thickness per coat (µm)	Theoretical spreading rate (m ² /l)
Range	10 - 25	40 - 100	25 - 10
Recommended	15	60	16.6

Mixing ratio By volume, base to hardener: 55 Binder to 45 Zincpaste

Curing Times

	Substrate temperature		
	23°C at 30% RH	23°C at 50% RH	23°C at 90% RH
Touch dry	3 Minutes	2 Minutes	1 Minute
Dry to handle	1 Hour	30 Minutes	20 Minutes
Full cure	6 Hours	6 Hours	6 Hours
Potlife	8 Hours	8 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/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					
	23°C at 30% RH		23°C at 50% RH		23°C at 90% RH	
	Min	Max	Min	Max	Min	Max
Single pack products	24 Hours	Indefinite	24 Hours	Indefinite	24 Hours	Indefinite
2-pack products	24 Hours	Indefinite	24 Hours	Indefinite	24 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.

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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.

- The zinc paste should be stirred with a clean mechanical mixer before adding the binder.
- Homogenize the binder by stirring or by gentle shaking of the can. Add binder gradually whilst stirring preferably by means of a mechanical mixer.
- Keep stirring until mixture is lump-free. If necessary, remove coarse particles by sieving to avoid blockage of the spray equipment.
- Stir continuously during application

Avoid too vigorous mixing as it leads to air inclusion, which may result in poor application results.

Irrespective of the substrate temperature, the advised minimum temperature of the mixed paint is 10 °C.

Conditions

The relative humidity should be between 65% and 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.

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 a 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.

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 or use a sealer coat.

Methods

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

Guiding data Airspray	Pressure	4 - 5 bar
	Nozzle size	1.8 - 2.2 mm
	Volume of thinner	0 - 5%

Brush / Roller Not recommended.

Thinner

Transocean Thinner 6.07

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 IOZ Thinner 6.07

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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.

The zinc silicate should be fully cured prior to recoating. 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 zinc silicates, the air in the pores will escape through the new coat of paint and may cause blisters or pinholes ("popping") in the fresh coat just after application. To avoid this a mist coat/full coat technique is recommended.

First apply a thin coat of the diluted next coat to fill the pores in the zinc silicate film and a few minutes later apply the same product to full specified film thickness.

In case where thinning of the next coat is not desired or in difficult cases, use Transpoxy Sealer 1.99 or Transpoxy Primer 1.16 as a tiecoat.

Application conditions.

The optimal conditions for spraying are between 15-25 °C and 75% RH.

Minimum surface temperature during application should be 0°C. Steel temperature has to be above the dew point. As a rule of thumb a steel temperature 3°C above the dew point can be considered safe.

In confined spaces, supply an adequate amount of fresh air during application and drying to assist solvent evaporation.

Ventilation for this purpose is recommended to be a minimum corresponding to a few air shifts per hour along all surfaces.

However, avoid ventilators blowing directly onto the freshly applied paint.

Curing conditions.

Transozinc Silicate Shopprimer requires humidity for full curing. Curing can be checked by using 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, thinner 6.07 or thinner 6.08 may be used alternatively.

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Additional Product information

Storage and shelf life of zinc silicates

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.

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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