



**ATIYEH PAYESH BARAK CHEMICAL COMPANY  
(OXsos)**

**Marine, Offshore, Industrial & Protective Coatings**

**Data sheet**

# OXSOZINC SILICATE PRIMER 352

## Product Description

A self-curing ethyl silicate with high zinc content for an excellent protection of steel structures against corrosion in industrial and marine environments. The product is also resistant up to 400°C based on the coating system and conditions of application. It can be left uncoated but may be recoated with Oxso epoxy, Oxsochlor Or Oxsovinyl products. The product complies SSPC paint 20 level1 and ISO 12944.

## Physical Properties

<u>Color/Texture</u>	Gray (RAL)/ Matt
<u>Volume Solids</u>	51%
<u>Specific gravity</u>	2.30 ±0.04gr/ml
<u>Flashpoint</u>	>15°C

	Dry film thickness per coat (μ)	Wet film thickness per coat (μ)	Theoretical spreading rate (m <sup>2</sup> /l)
Range	60-80	110- 160	8.5-6.2
Recommended	70	135	7.35

Note: Specific gravity of paint may vary slightly due to shade difference.

## Application Data

<u>Mixing ratio</u>	by wt. A com. To B com: 40 to 60 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.
<u>Pot life</u>	25°C: 6 hours      30°C: 4 hours
<u>Guiding data Airless spray</u>	Pressure: 120 –200 bar. Nozzle size: 0.53 – 0.64 mm Spray angle: 40 – 80 degrees. Volume of thinner: 0 – 3 %.
<u>Guiding data Air spray</u>	Pressure: 4 –5 bar.      Nozzle size: 1.8 – 2.2 mm. Use equipment with a low speed agitator.      Volume of thinner: 0 – 10 %.
<u>Brush/ Roller</u>	Suitable for touch-up work only.
<u>Thinner/ Cleaner</u>	OXSOS Zinc Thinner T-63

## Drying and Recoating Times<sup>1</sup>

Substrate temperature	Touch dry	Dry to handle	Dry to recoat	Dry to recoat
			Minimum	Maximum <sup>2</sup>
70% RH, 23°C	40 mins	5 hours	7 days	Indefinite
70% RH 30°C	20 mins	3 hours	6 days	Indefinite

(<sup>1</sup>): 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.

(<sup>2</sup>): When recoated with itself, TO 352 should be applied wet. When recoating with products, the coating should be fully cured, dry and free from zinc salts and other contaminants. Curing can be checked by MEK rub test (ASTM D 4752). When in doubt, consult your nearest OXSOS 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. Sa 2.5 – ISO 8501:1 Apply **OXSOZINC SILICATE 352** immediately after the steel Has been blasted and the quality of preparation has been approved.

## Application 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. Humidity should be below 80% RH. The maximum recommended surface temperature is approx. 35°C. Higher steel temperature is 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. The temperature of the mixed paint should be at least 10°C, otherwise extra solvent may be required to obtain a proper application viscosity. The maximum temperature of paint before application should be 40°C.

## Storage and Shelf Life

This product has the shelf life of 12 months in storage temperature of 10 -30°C. 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.

## Worldwide Availability

The product is part of the common OXSOS 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 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.

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