

Zinc Phosphate Primer

TI-71002

Description

A high quality alkyd primer, anti-corrosive, based on zinc phosphate (rust inhibitive pigment) for atmospheric exposure.

Recommended Use

Recommended to use as primer for exterior and interior applications in a wide range of industrial structures on steel works, such as warehouses, steel structures, doors, and fire fighting systems.

Characteristics

- Very good resistance to corrosion.
- Excellent adhesion.
- Good resistance to weather conditions.
- Lead and chromate pigment free.

Physical Constants

Finish:	Flat	-
Color:	Grey, white, red and other colors	-
Volume Solid:	56%	ASTM D2697
Viscosity:	115 KU @35°C.	ASTM D562
Specific Gravity:	1.45	ASTM D1475
D.F.T:	50 µ each coat	-
Theoretical Spreading Rate:	11.2 m ² /L @ D.F.T. 50 µm.	-
VOC Values:	395 g/ ltr.	-

Surface Preparation

• Remove all visible surface deposits such as grease, oils with suitable detergent per (SSPC-SP1). Remove salt and other contaminants by washing using high pressure fresh water.
Any fabrication defects such as weld spatter, delamination, sharp edges and weld slag should be repaired prior to surface preparation.

Steel Surfaces:

The surface must be prepared according to Sa 2½ (ISO 8501-1)- (NACE No.2/SSPC-SP10), or Sa2 (NACE No.3/SSPC-SP6) or hand and power tool cleaning according to St3(SSPC-SP3).

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Application Conditions

- Temperature during application should be more than (5°C).
- Surface temperature: at least (3°C) above dew point.
- Relative humidity: maximum 85%.

Painting System

Primers: Zinc Phosphate Primer.

Topcoats: Overcoated with all kinds of alkyd paints.

For other suitable topcoats, consult Timepaints TSD.

Application Method and Thinning:

THINNER: Recommended thinner is "Time Thinner 504".

Application Method	Airless Spray	Air Spray	Brush/Roller**
Thinning (by volume)*	(0 - 5)%	(10-15) %	(0 - 5)%
Nozzle Orifice	0.023-0.031"	1.5- 1.8 mm	N/A
Nozzle Pressure	15 MPa (2100psi)	29.0-43.5 psi	N/A
Spray Angle	40-650	50-800	N/A

(*) Depends on the weather condition at work place.

(**) Recommended for stripe coat and small areas.

Film Thickness and Spreading Rate:

-	Minimum	-	Maximum	-	Recommended	-
-	(µm)	mil	(µm)	mil	(µm)	mil
Dry Film Thickness (DFT)	40	1.6	100	4	50	2.0
Wet Film Thickness (WFT)	71.5	2.85	178.6	7.1	89	3.75
-	m2/l	ft2/USgal	m2/l	ft2/USgal	m2/l	ft2/US gal
Theoretical Spreading Rate	14	561.0	5.6	224	11.2	449

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Drying Time

Drying times are generally related to air circulation, temperature, film thickness and number of coats, and will be affected correspondingly.

Temperature	25°C/77°F
Relative Humidity	50%
Surface Dry	30 min
Hard Dry	3 hours
Dry to recoat, minimum	4 hours
Dry to recoat, maximum*	-----
Full Cured	24 hours

Note: All records given in the table are typical at: recommended film thickness, good ventilation and one coat system.

(*) The surface should be dry and clean prior to application. If the recoating interval is exceeded, the surface may need to be roughened

Packing

- US Gallon
- Drum 18 Ltr

Shelf Life & Storage

Shelf life : 12 months @ 25 °C.

Storage : The container should be kept in sealed, dry, cool, well ventilated place and stored in accordance with national regulations.

Safety Precaution

- Please read and follow the precautionary notices displayed on the container, and all caution statements on the MSDS of this product.
- Handle with care before and during use.
- During application of paint, contact of liquid paint with eyes, skin, inhalation of paint mist and paint vapour, should be strongly avoided.
- Recommended to use the product in well-ventilated area when applying the paint in insufficient ventilated areas, forced ventilation should be provided.
- Keep away from the reach of children.

For environmental safety : please donate the leftover paint and packaging to your local authorized institution for usage or recycling purpose.

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Disclaimer

To the best of our knowledge the technical data listed herein is true and accurate up to publication date and is subject to change without prior notice. User must contact Al-Daman Building Materials Company to verify of any modifications before specifying or ordering the product. Thus, information given in this sheet is not intended to be exhaustive and any person using the product other than the recommendations in this sheet or without reverting to our Timepaints TSD, he should take his accountability in this connection.

As we are not capable to control the quality and the substrate's conditions as well as the factors that affect on using, or applying the product, so we never give any written or implied guarantee in these documents, but we guarantee our products to conform to Timepaints quality while we assume no responsibility for coverage, performance or injuries resulting from application. Liability "if any" is limited to replace the products mentioned above.