

GP PRIME 101

POLYURETHANE BASED ANTI CORROSIVE PRIMER

Description

Two-component air-drying polyurethane based primer containing zinc phosphate as anti corrosive pigment.

Recommended Use

It is recommended as a primer for MS surface in OEM applications as well as in Process industries like fertilizer plants, Refineries, Petrochemical industries for protection of steel pipelines and structural from corrosion.

Physical Data

COLOUR	: Grey /Red
FINISH	: Matt
SOLIDS BY VOLUME	: 40 ± 3%
THEORETICAL SPREADING RATE	: 13.33 sq.mt /lit at recommended DFT of 30 μ
FLASH POINT	: Base : Above 23° C Hardener : Above 30° C
DRYING CHARACTERISTICS (At 30° C and 65% Relative humidity)	: SURFACE DRY : 30 minutes HARD DRY : Overnight FULL CURE : 7 Days
SHELF LIFE	: BASE : 6months HARDENER : 6 months

Surface Preparation

Abrasive blasting to Sa 2 1/2 Swedish Standards is the best method of surface preparation. In case blasting is not possible, then the surface of steel should be manually cleaned with brass wire brush, coarse emery paper, scraper, etc to remove rust, dust, loose old coating, oil, grease, and other foreign contaminants. It is preferable to give a solvent wipe after surface preparation. The surface should be absolutely dry, moisture and oil free before primer application or Phosphated components by 7-tank pretreatment process of surface preparation.

Application Data

MIXING RATIO	: Base : Hardener (As per our recommendation)
APPLICATION	: By Brush / By Conventional Spray
THINNER	: Thinner 001
POT LIFE	: 3 hours min at 30° C
RECOMMENDED DFT	: 30-40 μ .
OVERCOATING INTERVAL	: MIN : 8 hours MAX : 24 hours (if it exceeds, the surface should be roughened by emery scuffing grade 320)
COMPATIBILITY	: Can be top coated with Epoxy, Polyurethane, Chlorinated rubber and Alkyd finish coatings.

Application Method

Stir the Base part thoroughly. Mix the base and hardener as per our recommended ratio, by volume. Stir the mix gently to attain homogeneity. Add Thinner Type 001 into the mix, if required, depending on application method, and stir gently for few minutes. Allow the mixture to stand still (maturation) for about 10-15 minutes to initiate the reaction. Strain the paint through Nylon filter cloth of 200 mesh size and apply uniformly over the surface. All equipments used for above should



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be properly clean.

Application: By Brush / By Conventional Spray / By Airless Spray

Generally no thinner is required for Brush application, however under adverse environmental conditions about 5% of thinner, by volume, can be added. Apply evenly in crossed manner and ensuring the uniform application. Use quality brushes for paint application.

For Conventional Spray application:

Thinner: Type 001

Addition: 10-15%

Nozzle Orifice: 1.2 -1.4 mm

Nozzle Pressure: 40-70 p.s.i.

For Airless Spray application:

Thinner: Type 001

Addition: Max 5%

Nozzle Orifice: 0.28-0.37 mm

Nozzle Pressure: 1400-1800 p.s.i.

Additional Information

Further information regarding industry standards, terms and abbreviations used in this data sheet can be found in the following section of Grand Polycoats' latest Data manual :

- Guide to Product Data Sheet
- Surface Preparation Details
- Paint Application Details
- MSDS

Notes

1. Do not apply paint when temperature falls below 100 C or rises above 500 C, when Relative Humidity is above 85% & during rain, fog, or mist. Do not apply on hot surface (above 500 C). Surface temperature must always be minimum of 3°C above Dew point.
2. Brushes and spray equipment should be cleaned with GP's recommended thinner otherwise equipment is liable to be damaged.
3. DFT variation can be obtained by change in application method / thinning ratio. Contact Grand Polycoats' representative for further assistance.
4. Shelf life indicated is minimum, for this Product in sealed conditions and it is subject to re-inspection thereafter. Individual component is required to be stored in cool, dry and covered condition, away from heat and ignition.

Health & Safety

This is a solvent based paint and care should be taken to avoid inhalation of spray mist or vapour as well as contact between the wet paint and exposed skin or eyes.

Limitation of Liability

To the best of our knowledge, the technical data in our literature are true and accurate at the date of issuance but are subject to change without prior notice. We guarantee our product to conform to the specifications contained herein. We make no other warranty or guarantee of any kind, express or implied, including merchantability and fitness for particular purpose. Liability, if any, is limited to replacement of the product or refund of the purchased price. Labour or cost of labour and other consequential damages are hereby excluded.



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Grand Polycoats Co.Pvt.Ltd. 204, Siddharth Complex, R.C. Dutt Road, Vadodara - 390007, (Gujarat) India.

Tel.: +91-265-3064200 / 3064201 Fax: +91-265-2337022

E-mail: marketing@grandpolycoats.com Website: www.grandpolycoats.com

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