

GP PRIME 402

INORGANIC ETHYL ZINC SILICATE PRIMER

Description

Two-component solvent borne moisture curing Inorganic Ethyl Zinc silicate coating.

Recommended Use

This primer gives the best protection from corrosion to abrasive blasted steel. It is recommended for exterior and interior of water and storage tanks (based on the material stored inside), structures, bullets, equipments of petrochemical complex, refineries, fertilizer units, power plants, steel plants, smelters, cement plants, paper and pulp plants, transportation industries, chemical plants, etc. Inorganic zinc silicate provides cathodic protection to steel and gives excellent corrosion resistance even in the most severe conditions, when used in a suitable system.

It is also recommended as a primer for high temperature areas (Max 400 Deg C). It can also be used as a primer for buried pipelines, tanks/boilers, structures, and for sea worthiness.

It is advisable to apply subsequent high build intermediate coats.

Physical Data

COLOUR	:	Grey
FINISH	:	Matt
THEORETICAL SPREADING RATE	:	8 sq.mt /lt at recommended DFT of 75 μ
FLASH POINT	:	Liquid : Above 16°C
DRYING CHARACTERISTICS (At 65% Relative Humidity & at 30°C)	:	SURFACE DRY : 20 - 30 minutes HARD DRY : 16 - 24 hours FULL CURE : 7 days
SHELF LIFE	:	BASE : 6 months HARDENER : 6 months

Surface Preparation

Abrasive blasting to min Sa 2 1/2 Swedish Standards is must with a blasting profile of 45 - 70 microns. The surface should be absolutely dry, oil and salt free before application of the primer. The primer should be applied preferably immediately or within 4 hours after blasting for best performance. In case it is extended; the surface should be cleaned by sweep blast to remove any flash rust that may have formed.

Application Data

MIXING RATIO	:	Part A : Part B - As per our recommendations
APPLICATION	:	By Conventional Spray /By Airless Spray
THINNER	:	Type 004
POT LIFE	:	4 hours min at 30°C
RECOMMENDED DFT	:	60 -75 μ .
OVERCOATING INTERVAL	:	MIN : 24 hours (If Relative Humidity is more than 65%) MAX : Indefinite (Surface should be free from Zn corrosion products & other impurities.
COMPATIBILITY	:	Compatible with Epoxy, PU, Chlorinated Rubber and Heat Resistant paints.

Application Method

Open the packing just before use. Take the Liquid part in a clean container and add zinc dust gradually by weight into it, as per the recommended ratio, under slow constant power stirring. Stir the mix gently to attain homogeneity. Add Thinner Type 004 into the mix and stir gently for few minutes. Strain the mixture through 60-80 mesh screen and apply uniformly over the surface. All equipments used for above should be properly clean. Stirring should continue till the batch is completed.



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Brush application is not recommended. If Relative Humidity is less than 40%, it is advisable to sprinkle water over the primed surface after about 30 minutes of application.

Application : By Conventional Spray / By Airless Spray only.

When over coating with H B paints apply by mist coat/full coat technique.

For Conventional Spray application

Thinner: 004

Addition: 5-15 %

Nozzle Orifice: 1.5 -3 mm

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

For Airless Spray application:

Thinner: 004

Addition: Max 5%, if required.

Nozzle Orifice: 0.48 - 0.64 mm

Nozzle Pressure: 1800-2100 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 when temperature falls below 10°C or rises above 50°C. Do not apply during rain, fog, or mist. Surface temperature must always be minimum of 3°C above Dew point.
2. Spray equipment should be cleaned with GP's recommended thinner otherwise equipment is liable to be damaged.
3. Products with various % of metallic Zinc contents are available on request.
4. Shelf life indicated is minimum for this Product in sealed condition and it is subjected to re-inspection thereafter. Individual component is required to be stored in cool, dry and covered condition, away from heat and ignition.
5. Shake the liquid part thoroughly before adding zinc dust into it. Do not open the packing until just before use. Avoid moisture contact with the zinc dust.

Health & Safety

This is a solvent based paint and care should be taken to avoid inhalation of spray mist or vapours 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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