



الشركة اليمنية لصناعة الطلاء و مشتقاته المحدودة

Yemen Company for Paints & Derivatives Ltd.

TWO PACK EPOXY ZN. PHOSPHATE

DESCRIPTION:

Gamma 2Pack Epoxy Zn. Phosphate is two-component polyamide-cured epoxy primer containing zinc phosphate as corrosion inhibiting pigment. It cures to a strong and rust - preventing coatings.



USES:

It is used as a primer or an intermediate coat in steel & concrete surfaces in severe industrial or marine environments. It can work as a finishing coat where cosmetic appearance is of less importance.

MAIN FEATURES:

- Excellent durability to all types of chemical environment.
- Outstanding adhesion to wide variety of surfaces.

SURFACE PREPARATION:

- New steel:** Oil and grease must be removed with suitable detergent, salts and other contaminants by (high pressure) fresh water cleaning prior to blasting. After blasting, clean the surface carefully from abrasives and dust. Abrasive blasting is the most effective method. Ensure surfaces are completely dry in depth and free of dirt, oil, grease or other contamination.
- Maintenance:** On old steel surfaces having been exposed to salt water, excessive amounts of salt residues in pitting may call for wet abrasive blasting followed by dry abrasive blasting. Alternatively, dry abrasive blasting followed by high pressure fresh water cleaning, drying, and finally, dry abrasive blasting again.

Note: Data, specifications, directions and recommendations given in this data sheet represent only test results or experience obtained under controlled or specially defined circumstances. Their accuracy, completeness or appropriateness under the actual conditions of any intended use of the Products herein must be determined exclusively by the Buyer and/or User.

For Further Information, please contact us at:

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Physical Properties

Color	White & Grey
Finish	Flat
Curing Mechanism	Cross linking reacting between epoxy and polyamide
Mixing Ratio	Base to Hardener (3 : 1 by weight)
Type of Solvent	Toluene /Xylene, Methoxy Propanol
Volume Solid	48 ± 1 %
Weight Solid	75 ± 1 %
Specific Gravity	1.5 ± 0.02
Flash Point	30°C
VOC	450 gm / lt
Dry Film Thickness	60 – 75 µ for one coat
Theoretical Coverage	6.0 – 6.5 m ² / lt. for one coat
Practical Coverage	Depends on nature of surface
Shelf Life	12 months

Application Details

Substrate	Mechanically cleaned Steel or Concrete surface
Thinners	Normally not necessary. If desired, with Epoxy Thinner max. (5-10%)
Mixing	Mix base component uniformly before adding hardener, then combine at recommended ratio & mix thoroughly for at least 2-3 minutes. Keep the added mixtures for 5 – 10 minutes for complete reaction, before the start of application
Pot life@ 30°C	3 – 4 Hours
Application Condition	25°C – 40°C / 50 – 70 RH
Clean Up	With Epoxy Thinner
Application Method	Airless or conventional spray. Touch- up can be made with brush or roller
Drying Time @ 30°C	Tack-Free (3 – 4 Hours) in 60 – 70% RH. Recoat * (> 18 hrs & < 24 hrs)

*If Recoat time is exceeded, slight sanding with sand paper is necessary, to create a surface profile.

Performance Characteristics

Impact Resistance	> 120 cm.kg - By ASTM – D 2794
Flexibility	1 / 4" – By ASTM – D 173 (By Conical Mandrel)
Hardness	ISO Class – II – By ISO 2409 (By Cross Cut Hardness Tester)
Salt Fog Exposure	No Blistering / rusting for 1000 hours. – By ASTM – B 117
Safety Health & Environment (S.H.E)	Handle with care – Strictly follow the handling, storage and use instruction on paint cans and /or MSDS including the personal protection equipment necessary during application. Always preferred to apply in well ventilated areas.

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