



EPOSHIELD ZP

(MOISTURE – INSENSITIVE EPOXY COATING)

General Description:

EPOSHIELD ZP is a solvent free, two components, high build epoxy system consisting of epoxy resins and amine hardener. It is formulated from a highly corrosive – resistant epoxy resin to provide excellent salt resistance and underwater adhesion to concrete and steel.

EPOSHIELD ZP is a moisture insensitive system hence, can be applied on damp, moist surface. It can be applied on concrete or steel surfaces both above and below water and generally in areas around a marine atmosphere.

Major Uses:

- **MARINE** – maintenance painting in or near salt water including bridges, ballast tanks, structural steel pilings, offshore structures, splash zones and concrete structures.
- **INDUSTRIAL** – steel culverts, water works and sewage pumps intakes and screens. Maintenance painting of steel pipes and tanks that are subject to constant immersion.

Advantages:

- Moisture insensitive – can be applied on damp, moist surface.
- High – build, salt and chemical resistance.
- Abrasion resistant, non-toxic and can be used in areas in contact with potable water.
- Glossy finish, excellent adhesion to concrete and steel even above and below water application.
- Resistant to acids, sulphates, salts, oil and solvents.

Characteristics and Physical Properties:

Specific Gravity	1.33
Total Solid Content	100% solvent free
Pot life at – 20 ⁰ C 35 ⁰ C	30 – 40 minutes 15 – 20 minutes
Touch Dry at – 20 ⁰ C 35 ⁰ C	4 – 5 hrs. 1.5 – 2.5 hrs.
Dft.	200 microns
Theoretical Coverage	5 m ² / lit.
Minimum number of Coats	2 Coats
Recoat interval	3hrs. at 35 ⁰ C
Chemical resistant to	Salt, sewage, chlorinated water 25% caustic soda, petrol, kerosene, 20% sulphuric acid (consult MAS Tech. Department for other chemicals not listed.

Surface Preparation:

- Surface must be structurally sound, clean , and free from dust , coatings, loose debris, curing compounds, etc. Free – standing water should be removed, and any excess water soaked – up with sponge. Oils should be removed with Epoxy Thinner # 135.
- Recommended method for preparing concrete are by sand blasting, powder wire brushing or hand wire brushing. Steel should be sand or girt blasted to Sa 2.5.
- The part B hardener is added to part A resin and mixed preferably with a power drill fitted with a paddle for not more than 5 minutes. Apply immediately.

Mixing:

The part B hardener is added to part A resin and mixed preferably with a power drill fitted with a paddle for not more than 5 minutes. Apply immediately.

Application:

EPOSHILED ZP can be applied by bush, roller, or airless spray equipment. Apply first coat at the rate of 3 square meters per kilogram.

(Note: Theoretical spreading rate applies to a smooth surface and will be lesser as the surface gets rough. In general, the coating thickness should be 200 microns per coat as measured using a wet film thickness gauge). Apply second coat at same rate after 3 – 6 hours.



Method of Application: By brush, roller airless and Conventional Spray.

Spray Data	
Conventional Spray	
Nozzle Orifice	2 – 3mm.
Nozzle Pressure	43 – 57 psi.
Dilution	5 – 10 %
Thinner	# 135
Airless	
Nozzle Orifice	0.38 – 0.46 mm.
Nozzle Pressure	1138 - 1710 psi.
Dilution	0 - 5%
Thinner	#135

Packaging:

EPOSHIELD ZP is packed in gallons, 20-lit Pail.

The above information is given to the best of our knowledge based on laboratory test and practical experience. However, as the paint is often used under condition beyond our control, we cannot guarantee anything but the quality of the paint itself. We reserve the right to change the given data without prior notice.

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Physiological Hazards:

EPOSHIELD ZP does not contain dangerous solvents, nevertheless, good ventilation in working rooms is recommended as well as the use of safety tools and equipment. The mixture, in its liquid state is harmful if swallowed. If contact with eyes occurs, cleanse with fresh water and seek immediate medical advice.