

**BENZIPOX INORGANIC ZINC RICH PRIMER**

Two Pack Inorganic Zinc Ethyl Silicate Primer



**BENZIPOX INORGANIC ZINC RICH PRIMER** is a two pack moisture curing inorganic zinc ethyl silicate primer. It is fast curing, containing very high zinc dust that provides excellent corrosion protection to blasted steel substrates in highly corrosive environments. It can withstand surface dry heat temperature up to 500°C under atmospheric exposure conditions provided overcoated with suitable topcoat. Suitable for structural steel and piping to be exposed to highly corrosive environments. Recommended for offshore environments, refineries, power plants, bridges, buildings and mining equipment. Specially designed as a primer in coating system where extended durability is required.

**Standard Packing** : 5 litres

**Technical Information**

Mixing Ratio (By Volume) : 4.26 : 1 (Binder : Zinc Powder)  
 Binder : Ethyl Silicate  
 Finish : Soft Matt  
 Color : Dark Grey, refer BENZi High Performance Coating color card  
 Thinner : Thinner T900  
 Solid Content : 50% (by weight); 40% (by volume)  
 Dry Film Thickness : 25 - 75 microns / coat  
 Theoretical Coverage : 16 m<sup>2</sup> / litre (DFT of 25 microns); 5 m<sup>2</sup> / litre (DFT of 75 microns)  
 No. of coats : 1 coat  
 Touch Dry @ 30°C : 15 minutes (depends on temperature and humidity)  
 Recoating Interval : 1 hour  
 Curing Time @ 30°C : Minimum 10 hours  
 Pot Life @ 30°C : 6 hours after mixing of Binder and Zinc Powder  
 Shelf Life : Minimum 12 months if properly stored

**Typical Painting System**

Substrate	Primer (1 coat)	Intermediate (1 coat)	Topcoat (1 - 2 coats)
Ferrous Metal	* BENZIPOX Inorganic Zinc Rich Primer	BENZi Hi-Heat 600	BENZi Hi-Heat 600
Ferrous Metal	* BENZIPOX Inorganic Zinc Rich Primer	BENZIPOX Mastic 88	BENZITHANE 300

\* It is recommended to apply a mist coat (dilution up to 30%) of BENZIPOX Inorganic Zinc Rich Primer onto the substrate prior to full application of the same, as to avoid popping, blistering and delamination in service.

**Application Methods**

Brush / Roller : Recommended for small area and touch up such as stripe coating, weld-seams, edges, corner, rivets etc. Dilute up to 5 - 10% of Thinner T900 if necessary.  
 Conventional Air Spray : Dilute up to 10% of Thinner T900 if necessary.  
 Airless Spray : If thicker coat in one application is required, airless spray application is recommended. Dilute up to 10% of Thinner T900 if necessary.  
 Handling : Mix the Binder and Zinc Powder in correct ratio. Binder must be well shaken before use. Pour the Zinc Powder slowly into the Binder during mechanical mixing. Stir until lump free and pass through a 60 mesh sieve.  
 Clean Up : Clean all paint equipment with Thinner T900 immediately after use

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## Surface Preparation

### Ferrous Metal Surface

The service life span and performance of BENZIPOX Inorganic Zinc Rich Primer is directly related to the degree of surface preparation. Please observe the following:-

- Remove all wax, oil and grease by solvent cleaning (SSPC-SP1).
- Remove weld spatter and round off all rough weld seams and sharp edges to a smooth surface.
- Surface shall be abrasively blasted to a minimum standard of Sa 2.5 (ISO 8501-1:1988) or SSPC-SP10.
- An average surface profile of 50 microns is acceptable but this average should not exceed 75 microns.
- Surface to be coated shall be clean, dry and free from any contamination.
- Apply BENZIPOX Inorganic Zinc Rich Primer immediately after blasting / cleaning as to prevent oxidation and recontamination of the surface. If oxidation or recontamination occurred, reblast to the required standard.
- Avoid condensation of moisture onto surface prior to coating application, relative humidity should not exceed 85% and surface temperature should more than 3°C above Dew Point.

## Storage

Keep container tightly closed and in a secure upright position, store in a cool and shady place, do not expose directly to sunlight and extremes of temperature. Keep out of reach of children.

## Safety, Health and Environment

Ensure good ventilation during painting, do not breathe vapour or spray mist. Keep doors and windows open during application and drying. It is advisable to wear mask and eyes protector while applying. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. In case of accidental ingestion, DO NOT INDUCE VOMITING, seek immediate medical advice. To remove splashes of paint from skin by using water and soap or skin care product. Do not empty paint into drains or water courses, dispose of any paint waste in accordance with the appropriate Environmental Quality Regulations.

Materials Safety Data Sheet ( MSDS ) is available upon request.

## DANGER



**Hazard Statement:** Flammable liquid & vapour. May be fatal if swallowed & enters respiratory tract. Harmful if in contact with skin. May cause allergic or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation & allergic skin reaction. Very toxic to aquatic life with long lasting effects.

**Precautionary Statement:** Keep out of reach of children. Keep away from heat, sparks, open flames, hot surfaces. No smoking. Wear protective gloves, eyes protector, face protector. Store in a well-ventilated place. Keep container tightly closed. Dispose of contents & container in accordance with all local, national or international regulations.

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### **Limitation of Liability**

Liability of MCI Paint Sdn Bhd on any claim of any kind, including claims based upon negligence of MCI Paint Sdn Bhd, for any loss or damage arising out of, connected with, or resulting from the use of the products, shall in no case exceed the purchase price allocable to the products or part thereof which give rise to the claim. In no event shall MCI Paint Sdn Bhd be liable for consequential or incidental damages.

### **Disclaimer**

The above information is given to the best of our knowledge based on laboratory tests and practical experiences. However, since we cannot anticipate or control the many conditions under which our products may be used, we can only guarantee the quality of the product itself. We reserve the right to change the given information without prior notice due to production refinements arising from continuing research and development, which may result in changes in the paint properties.



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