



RAINBOW

INORGANIC ZINC RICH PRIMER— IZ-01R

Specification Data

PRODUCT NO	1036 IZ-01R
Type	Two component , high performance inorganic zinc rich primer based on zinc powder , ethyl Silicate and Anti-bending pigments.
Uses	Shop primer for steel plates bending process for tanks use (Each kind of oil tanks, water tanks, chemical storage tanks).
Characteristics	<ol style="list-style-type: none">1. Excellent resistance to cracking and detachment on the film thickness D.F.T. 75 μ and the coating steel plates to be exposed to atmosphere over 12 days before bending process(The rollers of Bending Machine to be cleaned and smoothed).2. Superior corrosion resistance.3. Excellent heat resistance withstands up to 400°C.4. Excellent resistance to oil and organic solvents.5. The quality is better than the test specification of CNS 4936 K2087.
Color	Gray
Finish	Flat
Service Temperature	400°C (750°F)
VOC values	464 g/L
Solids Content	By Weight Above 80% (mixture)
Zinc Content in Dry Film	By Weight Above 85%(Conforms to SSPC Paint 20 Level 1)
Dry Film Thickness	2-3 mils (50-75 μ m). Dry film thickness in excess of 5 mils (125 microns) per coat is not recommended
Theoretical Coverage	31.8 m ² /Gal 8.4 m ² /L 3.1 m ² /Kg (DFT :3 mils)
Preceding Coats	Chlorinated Rubber, Epoxy, Vinyl, Silicone or PU system A mist coat is required to minimize topcoat bubbling except for some topcoats (high-solids epoxy)
Repair	Use organic zinc epoxy paint to repair(YCP EP-03AA)

Performance Data

Test Method	System	Results
ISO 20340	1 ct. IZ-01R	qualified
Norsok M501	2 ct. No.988	
Corrosion Resistance	3 ct. UP-450	

Test reports and additional data available upon written request.

EPDM421036XX V1.6

YUNG CHI PAINT & VARNISH MFG. CO., LTD.

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<http://www.rainbowpaint.com.tw>

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Application Instruction

• Surface preparation

General

Remove dirt, dust, oil and all other contaminants that could interfere with adhesion of the coating. Surfaces must be clean and dry. Moisture, grease, sludge, dust, corrosive salt must be thoroughly cleaned from substrate.
Surface preparation standards can use SSPC-SP10 or Sa2 1/2 (ISO 8501-1:2007). Blast surface profile 1~3mils (25~75 microns) (Ref. ASTM D4417).

• Mixing & Thinning

Mixing

Pour the zinc dust gradually into the base with constant stirring and then pass through 80 mesh filter. Do not Add The Base(Liquid) Into Powder.

Thinning

Above 25°C, use HT-type SP-13 thinner to thin up 3~5%. Below 25°C, use LT-type SP-13 thinner to thin up 3~5%

Mixing Ratio

Base : Zinc dust = 23 : 77 (by weight)

Pot life

8 hours at 25°C (mixture, 77°F)

• Equipment

Spray**Application**

When the relative humidity is lower than 55%, water should be sprayed on after being painted for 30 minutes to promote hardening. The dry film thickness should not exceed 150 um to avoid cracking. This paint do not suitable for repairing or recoating, please use product No.1006 (EP-03AA) for repairing to avoid layer film cracking.

The air in the pores will escape through the next coating when overcoating and may cause blister. A mist coat then full coat can reduce this condition:

Spray a thin coat to fill the pores in the IZ-01R film, soon after apply to full specified film thickness to break the blisters.

Caution : In difficult cases it may be necessary to thin the next coat.

Airless**Spray**

Pump ratio 45:1 or greater

Tip size : 0.015"~ 0.021"

Air Pressure : 5~7 kg/cm²

Brush**Roller**

For touch-up of areas less than one square foot only. Use medium bristle brush and avoid rebrushing.

Not recommended

• Environment conditions

Condition	Coating	Surface	Environment	Humidity
Minimum	0°C (32°F)	0°C (32°F)	0°C (32°F)	30%
Maximum	45°C (113°F)	70°C (158°F)	45°C (113°F)	85%

Industry standards are for substrate temperatures to be 3°C(5°F) above the dew point . the product simply requires the substrate temperature to be above the dew point.

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• Curing Schedule

Surface Temp. & 50% Relative Humidity	Set to touch	Dry Hard	Dry to Recoat
0°C (32°F)	2 hours	8 hours	1 days
5°C (41°F)	1 hours	4 hours	1 days
15°C (59°F)	45 minutes	2 hours	16 hours
25°C (77°F)	15 minutes	60 minutes	12 hours
35°C (95°F)	12 minutes	50 minutes	8 hours

• Cleanup & Safety

Cleanup	Use No.1012 Inorganic Zinc Rich Thinner (SP-13) to clean. In case of spillage, absorb and dispose of in accordance with local applicable regulations.
Safety	Please read and follow all caution statements on this product data sheet and MSDS for this product.
Ventilation	Proper ventilation and protective measures must be provided during application and drying to keep solvent vapor concentrations within safe limits and to protect against toxic or oxygen deficient hazards.

• Package, Handling & Storage

Shelf Life	Part A :Minimum 2 years under normal storage conditions Part B :Minimum 2 years under normal storage conditions
Shipping Weight	Part A : 1 Gallon – 2.45 kg 3 Gallon – 7.51kg Part B : 1 Gallon – 8.03 kg 3 Gallon – 24.21 kg
Storage Temperature & Humidity	5-35°C (41-95°F) 0-90% Relative Humidity
Flash Point	Part A : 13°C (55°F) Zinc Filler : NA
Storage	Base and zinc powder storage can not sunlight exposure or temperature exceeds 40°C.

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