



# RAINBOW

## INORGANIC ZINC RICH PRIMER

PRODUCT NUMBER	1011 (IZ-01)
TYPE	A two-pack, inorganic zinc rich rust preventive paint based on ethyl silicate and high purity zinc powder
USES	Used for the steel structures of power plants, harbor facility, bridges, water pipelines, storage tanks etc. to long-potent rust prevention.
CHARACTERISTICS	<ol style="list-style-type: none"><li>1. Absolutely waterproof, can effectively prevent steel to rust in wet conditions.</li><li>2. Excellent resistance to mechanical damage.</li><li>3. Unaffected by gas-cutting and welding.</li><li>4. Excellent resistance to oils and organic solvents.</li><li>5. High corrosion preventive performance, can keep long-potent rust prevent.</li><li>6. Meet CNS 4936 K2087 1st coating specification.</li></ol>
FINISH	Flat
COLOR	Gray
MASS DENSITY	Above 2.4 Kg/L (mixture)
DRYING TIME	Set-to-touch 15 $\mu$ m Dry hard 4 hrs. (25°C)
OPTIMUM FILM THICKNESS	Wet 73-110 microns Dry 50-75 $\mu$ m
THEORETICAL COVERAGE	34.0 $\text{m}^2/\text{Gal}$ 9.0 $\text{m}^2/\text{L}$ 3.62 $\text{m}^2/\text{Kg}$
OVERCOATING INTERVALS	Min. 24 hrs. Max. 6 months
MIXING RATIO	Base : Zinc dust = 35 : 65 (by wt.)
NON-VOLATILE CONTENT	Above 70% (mixture, by weight)
VOLUME SOLID CONTENT	68 $\pm$ 5% (mixture)
POT LIFE	2 hrs. (mixture, 25°C)
HEAT RESISTANCE	Continuous 400°C
THINNER	No.1012 Inorganic Rich Thinner (SP-13) When the ambient temperature is below 20°C, use LT-type SP-13 thinner to thin up 3~5% 0 ~ 5 % (by wt.)
THINNING RATE	
SUBSEQUENT COATS	Chlorinated Rubber, Epoxy, Vinyl or PU system
STORAGE SHELF LIFE	Minimum 6 months under normal storage conditions. (Base and zinc dust storage place could not sunlight exposure or temperature exceed 40°C.)
APPLICATION METHOD	Airless Spray
TIP SIZE	0.015"~ 0.021"
NOTE	<ol style="list-style-type: none"><li>1. Pour the zinc dust gradually into the base with constant stirring, and then pass through 80 mesh of filter.</li><li>2. When used inside tanks, sufficient ventilation must be provided.</li><li>3. 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:</li><li>4. Spray a thin coat to fill the pores in the IZ-01 film, soon after apply to full specified film thickness to break the blisters.</li><li>5. Steel surfaces must be blast-cleaned to SIS Sa2 1/2, with moderate roughness (45 ~60 <math>\mu</math>).</li><li>6. When the relative humidity is lower than 40%, water should be sprayed on after being painted for 30 minutes to promote hardening.</li><li>7. The DFT should not exceed 100 microns to avoid cracking.</li><li>8. Touch up and repair should be with EP-03 Epoxy Zinc Rich Primer.</li><li>9. During the application process, the paint(iz-01) must be stirred continuously to avoid the precipitation of zinc powder.</li></ol>

EPDM421011XX V1.6

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

No.26, Yen Hai 3rd Road, Kaohsiung, Taiwan.  
<http://www.rainbowpaint.com.tw>

TEL:886-7-8713181  
FAX:886-7-8715443