

## **TECHNICAL DATASHEET**

# **METAL PRIMER Zinc Chromate**

### **PRODUCT DESCRIPTION**

Zinc Chromate primer is an alkyd based rust-inhibitive primer protecting ferrous metal surfaces against corrosion. Its formulation rich in high performance zinc chromate pigments provides excellent resistance against rust and oxidation.

### **PRODUCT BENEFITS**

- 1- High resistance to salt spray, UV emissions and weather conditions
- 2- Good abrasion resistance
- 3- Excellent adhesion on all metal surfaces
- 4- Excellent corrosion protection
- 5- Good leveling and coverage
- 6- Excellent compatibility with a wide range of topcoats

### **RECOMMENDED USES**

It is recommended for steel structures and surfaces exposed to corrosive environments. It is also recommended for overcoating of zinc primed steel and for applications on light metal alloy surfaces. It is used for only air-drying applications. It can be overcoated with Alkyd based paints. It is suitable for interior and exterior use for alkyd systems.

### **SURFACE PREPARATION**

Surfaces should be solid, clean and dry, free from oil, grease, salt, dust and other contaminants.

- 1- Alkaline and acid surfaces should be cleaned and neutralized.
- 2- Deteriorated previous coatings, weak and blistered paints or chalky substances should be removed by scrapers, paint removers or flame spraying.
- 3- Non-disintegrated paints or glossy surfaces of previous coatings should be roughened slightly with sand paper to ensure good undercoat adhesion.
- 4- Corroded and/or damaged areas should be blast cleaned.
- 5- Other surfaces: For aluminum substrates, thorough washing and sweeping with a nonmetallic blast medium is required.

## PHYSICAL AND CHEMICAL PROPERTIES

### Physical Properties

Physical State Viscous Liquid  
Appearance Flat Finish  
Color Range grey, yellow

**Temperature 25°C**  
**Relative Humidity 50%**

Specific Gravity, ISO 2811  $1.37 \pm 0.05 \text{ g/cm}^3$   
Viscosity, ISO 2884 25- 30 poises  
Drying Time, ASTM D5894 2-3 hours  
Wet Film Thickness, ISO 2808 100  $\mu\text{m}$   
Dry film Thickness, ISO 2808 60  $\mu\text{m}$   
Recoat Time 4-6 hours  
Coverage 35- 45 s.q.m. per gallon

Sag Resistance, ASTM D3730 Excellent  
Leveling, ASTM D2801 Excellent

Scratching Resistance, ASTM D3003 Excellent

### Chemical Properties

Solids by Weight  $77 \pm 2\%$   
Solids by Volume  $60 \pm 2\%$

## APPLYING

**Spray** Use airless spray or conventional spray

**Brush** Recommended for stripe coating and small areas, care must be taken to achieve the specified dry film thickness.

**Roller** May be used for small areas but not recommended for first primer coat.

## PACKING

In cylindrical tin containers of the following capacities:

- 1 US Quart = 0.95 L.
- 1 US gallon = 3.78 L.
- 1 Pail (5 U.S.G.) = 20L

## **STORAGE**

1 year under normal storage conditions from the issue date.  
Avoid frost & excessive heat.

The technical information contained in this Technical Data Sheet is to be understood as advice only and not binding in any respect.  
All details about working with our products should be adapted to prevailing local conditions and materials used.