



## METGUARD B102 METAL PROTECTIVE COATING PRODUCT AND APPLICATION DATA SHEET

### PRODUCT DESCRIPTION

Polymeric air-drying, thin film, corrosion preventive, direct to metal coating, uniquely formulated for structures made of hot rolled(HRS) and cold rolled(CRS) steel. It may be applied on black **fresh HRS without blasting, or pre- treatment involving pickling etc.** The product is supplied as a two-component system, **PART A and PART B**, and air dries at ambient conditions upon application by brush/spray/roller.

**METGUARD B102** is **chromate/halogen/isocyanate** free, non-toxic, environment friendly product. It serves as a **universal primer** for a variety of top coats to augment life of painted articles due to excellent corrosion protection at the coating-metal interface. A top coat of **METGUARD T101/T102** is recommended for complete protection of structures exposed to corrosive conditions.

### APPLICATION AREAS

- All newly fabricated steel structures used in industrial, commercial and residential infrastructure and installations.
- HRS and CRS members of earth moving machinery such as tractors, dumpers, cranes, etc.
- Potable and sewerage pipe lines as primer
- Cast and forged iron and steel parts

**Note:** *NOT recommended for immersion conditions.*

### SURFACE PREPARATION

**Application of this product completely eliminates sand/shot/grit blasting and primers. Nominal surface preparation conforming to St2 required**, involving wire brush/power tool/chipping tool etc.to remove loose scales and existing paints, followed by water wash and solvent cleaning using cotton cloth. The product is compatible with epoxy and urethane coatings and may be used on portions of such previously applied paints which are impossible to remove during **M&R operations**. New structures will require mere solvent cleaning to remove oily residues completely.

### APPLICATION METHOD

- PART A of METGUARD B101 should be homogenized first and PARTS A and B should be mixed in the prescribed proportion and thinned as per requirement with METGUARD Thinner B101. Mechanical stirrer is recommended for homogenization and mixing.
  - **PART A: PART B – 100:8 (by weight) ; 100:10 (by volume)**
- The mixed paint should be used within 8 hrs
- The product may be brushed/sprayed/ roller coated on the surface. Application of successive coats should be attempted after two hours following the earlier coat by spray, however allow for 2 to 3 hours if brushed or roller coated. Avoid very high humidity conditions (RH>85%) during application.
- No special handling is required as the material is non toxic.
- Use in a well ventilated area as the product contains volatile organic solvents.
- Recommended coating thickness on HRS & CRS is 40 to 80 microns( $\mu$ ) depending on end use.
-

## PROPERTIES

<b>PHYSICAL</b>	
Appearance	Free flowing liquid
Colour	Grey
Volume Solids(%v/v)	46±1
Theoretical Coverage(At 50µ)	9.2 sq. m/ litre
Drying Time(at30°C;50%RH)	Touch dry in 30 minutes; hard dry in 2 hours
Pot Life (at 27±2 °C)	8 hours
<b>MECHANICAL</b>	
Adhesion (ASTMD3359)	Classification 5B
Compatibility	Fully compatible with top coat METGUARD® T101/102 , alkyd/epoxy/PU paints
<b>CORROSION</b>	
SaltSpray ASTM B117	1000 hours (creep less than 1mm)
<b>THERMAL</b>	
Dry Heat Resistance	Up to 200°C
Flame Retardance	Intumescent
<i>Note: Mechanical tests were done on non pre-treated CRS coated to DFT of 40µ. Corrosion test was performed on non pre-treated CRS coated to a DFT of 40µ and top coated with METGUARD T101 to total DFT of 100µ, and force dried at 70°C for 60 mins.</i>	

## STORAGE LIFE

Shelf life of **METGUARD B102**, comprising **PART A and PART B** , is six months when stored in original sealed containers at or below 40°C.

## PACKAGING

Available in 5 litre and 20 litre containers.

## LEGAL NOTE

The information and recommendations relating to the application and end use of above products, are given in good faith based on our current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with our recommendations.