



METGUARD T102 HIGH GLOSS AIR DRYING COATING PRODUCT AND APPLICATION DATA SHEET

PRODUCT DESCRIPTION

Modified acrylic air drying coating specially formulated for outstanding adhesion to a variety of base coats. It provides a high gloss, abrasion and chemical resistant, weatherable finish in pleasing colours. This product provides excellent resistance to industrial pollutants both acidic and alkaline, humidity and UV. It is supplied as a two component system, Part A & Part B, in different industrial shades, and air dries at ambient conditions.

It is **totally eco-friendly as it is free of halogens, chromates, isocyanates and any other toxic ingredients. It is re-coatable even after many years of service.**

APPLICATION AREAS

- Specially recommended for Maintenance & Repair jobs on a variety of base coats for all steel structural members, used in bridges, marine superstructures, refineries & petrochemical sectors, chemical and pharmaceutical industries and other industrial installations **exposed to hostile environmental pollutants**
- Railway tracks both existing as well as new.
- **Duplex coatings** on Metalized Steel such as Galvanized Steel
- Grills, Railings in Residential & Commercial Buildings

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

APPLICATION METHOD

- Apply on base coat following appropriate guidelines for coating interval.
- **PART A** and **PART B of METGUARD T101** should be mixed in the following proportion:
Part A: Part B = 5:1(by volume) .
- **The mixed system should be used after one hour of maturation** and thinned only if necessary, with METGUARD Thinner T 102 .
- Allow for 2 to 3 hours minimum of air drying prior to second application of Top Coat if required.
- No special handling is required as the material is non toxic.
- Use in a well ventilated area as the product contains volatile organic solvents
- The product can be applied by Brush/Roller/Airless spray/ Pneumatic spray

PROPERTIES

PHYSICAL	
Appearance	Free flowing liquid
Density	1.10 – 1.2 gms/cc
Volume Solids (v/v)	60%
Theoretical coverage at 50 micron DFT	12 square meter/litre
Color	Most light and dark industrial shades
Drying Time (at 27± 2°C & 50% RH)	Touch dry in 30 mins; hard dry in 2 hours
Pot Life (at 27± 2°C)	Min. 6 hours
Recoatibility	Perfect even after many years of service
CHEMICAL	
Chemical Resistance (ASTM D1308 – Spot test with exposure of 4 Hrs)	
50% H ₂ SO ₄	No effect
30% HCl	No effect
20% CH ₃ COOH	No effect
30% NH ₄ OH	No effect
50% NaOH	No effect
CORROSION	
Salt Spray (ASTM B117)	More than 2000 hours (creep less than 1 mm from scribe)
Electrochemical Impedance Studies	Coating maintains polarization resistance , Rp, in the range of Giga ohm cm ² after 7700 hrs of 3.5% NaCl solution constant exposure
MECHANICAL	
Scratch Hardness (IS : 101 part 5/sec 2)	5 Kg load
Adhesion (ASTM D3359)	Classification 5B
THERMAL	
Dry Heat Resistance	Up to 150°C
<i>Note: All Chemical, Mechanical and Thermal tests were done on METGUARD T102 coated to a DFT of 80µ, on CRS pre-coated with METGUARD B101 (150µ DFT), and force dried at 70°C for one hour.</i>	

STORAGE LIFE

Storage life of **METGUARD T102** comprising **PART A** and **PART B**, is six months when stored in original 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.