

CODE: PU-802

PRODUCT NAME:

One Component Moisture Cured MIO-Polyurethane

DESCRIPTION:

PU-802 is a one component, aromatic polyurethane coating, suitable for use in medium to heavy service environments. It has a dense surface film and flexibility that make it an excellent, surface tolerant primer or top coat for concrete and steelwork while maintaining flexibility and corrosion protection.

PU-802 contains micaceous iron oxide (MIO) and is compatible with HR-502, EP-205 and additional coating systems.

TECHNICAL DATA:

| | |
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| Binder | Polyurethane |
| Pigment | Micaceous iron oxide |
| Finish | Flat |
| Shade | Grey,Green,Black |
| Specific gravity | 1.4 ±0.1 Kg/Lit |
| Volume solid | 75±3% |
| Flash point | 36 °C |
| Typical dry film thickness | 100-125 Microns |
| Substrate | Blasted steel, Galvanized and Concrete |
| Application method | Airless Spray,Roller,Brush |
| Thinner / Cleaner | T-800 |
| Theoretical spreading rate (100mic) | 7.5 M2/Lit |
| Packing | Base : 5 Kg or 10 Kg |
| Shelf life | 6 Months in unopened pails |

Drying Time at 60% Humidity

| Temp | Touch dry | Hard dry | Overcoating | | Full Cure |
|------|------------|----------|-------------|---------|-----------|
| | | | Min | Max | |
| 15°C | 2 hours | 10 hours | 10 hours | 6months | 5days |
| 25°C | 60minutes | 6hours | 5 hours | 6months | 3 days |
| 40°C | 30 minutes | 3 hours | 3 hours | 6months | 1 days |

Note: Drying times are dependent on applied film thickness and relative humidity; all data in this catalogue are reported at recommended DFT and 50-60% RH%.

Surface preparation

All surfaces to be coated clean dry and free from contamination. Prior to paint application all surfaces should be assessed and treated in accordance with ISO 8504:1992.

Where necessary, remove weld spatter, and where required smooth weld seams and sharp edges. Oil or grease should be removed in accordance with SSPC-SP1 solvent cleaning.

Abrasive Blast cleaning

Abrasive blast clean to Sa 2 ½(ISO 8501-1:1988) or SSPC-SP10. If oxidation has occurred between blasting and application of PU-802, the surface should be reblasted to the specified visual standard. For thin layer systems a sharp, angular surface profile of 50-70 microns is recommended. For heavy duty systems angular surface profile of 75-100 microns is recommended.

Shop primed Steelwork

PU-802 is suitable for application to steelwork freshly coated with zinc silicate shop primers. If the shop primer show extensive or widely scattered breakdown, or excessive zinc corrosion products, overall sweep blasting will be necessary. Other types of shop primer are not suitable for overcoating and will require complete removal by abrasive blast cleaning. Weld seams and damaged areas should be cleaned to Sa 2½(ISO 8501-1:1988) or SSPC-SP6.

Surface preparation shall not take place in the following conditions:

- A) At temperature below 5 ° C
- B) When the relative humidity greater than 90%
- C) When the metal surface temperature is less than 3°C above the dew point
- D) Outside day light hours on exterior locations

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Application Method:

This material is a one component coating and should always be mixed thoroughly with a power agitator before application.

| | |
|----------------|---|
| Air less Spray | Tip range 0.017-0.021 inch Total output pressure at spray tip not less than 176 Bar (2500 psi) |
| Air Spray | NOT RECOMMENDED |
| Brush | Typically 50-75 mic can be achieved. |
| Roller | Typically 50-75 mic can be achieved. |

Flush Equipment with recommended Cleaner before and after use.

NOT: This coating of polyurethane is reactive with moisture. Keep containers dry and tightly sealed to avoid moisture contamination.

ENVIRONMENTAL CONDITIONS:

- To prevent moisture condensation during application, surface temperature must be at least 3 °C above dew point.
 - Never apply coatings under reverse environmental condition.
 - In hot climate, material temperature should be 20 to 25 °C prior to mixing.
 - For satisfactory cure, air and surface temperature must be above 10°C
- shall not be applied when wind speed is in excess of 7 m/s

--Paint

| | |
|----------------------|-------------|
| Air temperature | 10 to 40 °C |
| Surface temperature | 10 to 50 °C |
| Material temperature | 10 to 30 °C |
| Relative humidity | Max 80 % |



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HEALTH AND SAFETY:

This product is Flammable. Keep away from heat and open flame .Keep container closed .Use with adequate ventilation. Avoid prolonged and repeated contact with skin. If used in confined areas, observe the following precautions to prevent hazards of fire or explosion or damage to the health:

- 1-Circulate adequate fresh air continuously during application and drying.
- 2-Use fresh air masks and explosion proof equipment.
- 3- Prohibit all flames, sparks, welding and smoking.