

CODE: PU-800

PRODUCT NAME:

**One Component Moisture Cured
Polyurethane Resin Primer**

DESCRIPTION:

PU-800 is a one component polyurethane resin Primer with very good penetration and toleration to expansion and shrinkage of substrate. It provides water proof property, and promotes surface strength of substrate.

PU-800 is a primer for cement mortar, and general concrete surface.

TECHNICAL DATA:

Binder	Polyurethane
Pigment	No Pigments
Finish	High Gloss
Shade	Slightly yellowish Clear
Specific gravity	1.0 ±0.1 Kg/Lit
Volume solid	40±2%
Flash point	26 °C
Typical dry film thickness	50-100 Microns
Substrate	Primed steel, Galvanized and Concrete
Application method	Airless Spray, Roller, Brush
Thinner / Cleaner	T-800
Theoretical spreading rate (50mic)	8 M2/Lit
Packing	4 Kg or 10 Kg
Shelf life	6 Months in unopened pails



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Drying Time at 60% Humidity

Temp	Touch dry	Hard dry	Overcoating		Full Cure
			Min	Max	
15°C	3 hours	12 hours	12 h	6months	5days
25°C	1 hours	8hours	7 h	6months	3 days
40°C	20 minutes	4 hours	4 h	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.

Concrete should be cured for a minimum of 28 days prior to coating. The moisture content of the concrete should be below 6%. All surfaces should be clean, dry and free from curing compounds, release agents, trowelling compounds, surface hardener, efflorescence, grease, oil, dirt, old coatings and loose or disintegrating concrete. All poured and precast concrete must also be sweep blasted (preferred) or acid etched to remove laitance.

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

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.



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ENVIRONMENTAL CONDITIONS:

- To prevent moisture condensation during application, surface temperature must be at least 3 °C above the 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
- Paint shall not be applied when wind speed is in excess of 7 m/s

Air temperature	10 to 40 °C
Surface temperature	10 to 50 °C
Material temperature	10 to 30 °C
Relative humidity	60 to 90 %

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.