

CODE: PU-806

**PRODUCT NAME:**

**One Component Moisture Cured- High Solid Tar- Polyurethane**

**DESCRIPTION:**

PU-806 is a moisture cured tar-polyurethane coating which displays excellent corrosion , chemical resistance for tank lining , immersion service in crude oil , salt solutions and fresh or sea water with just a single coat .It is an excellent coating for waterproofing.

PU-806 is a industrial lining and coating for use varying from cold to hot climates on marine structures, pilling, ballast tanks, crude oil cargo, ships bottoms, burned pipes, oil production and refining plants, sewage treatment plants.

PU-804 is suitable for use over steel. It normally does not require a primer or any additional topcoats but also can be applied over inorganic Zinc silicate primer to serve as a tie coat between primer and topcoat.

**TECHNICAL DATA:**

Binder	Tar-Polyurethane
Pigment	Suitable pigments and Extenders
Finish	Flat
Shade	Black
Specific gravity	1.4 ±0.05 Kg/Lit
Volume solid	90%
Flash point	48 °C
Typical dry film thickness	1000-2000Microns
Substrate	Primed steel, Galvanized ,Concrete Or old coal tar epoxy
Application method	Brush, Roller and saw tooth from vertical part
Thinner / Cleaner	Not recommended
Tensile	20 Kgf/cm <sup>2</sup>
Elongation	600 %
Theoretical spreading rate ( 1500mic)	0.6 M <sup>2</sup> /Lit
Packing	Base : 5 Kg or 10 Kg
Shelf life	6 Months in unopened pails

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## Drying Time at 70% RH

Temp	Touch dry	Overcoating At 60-70% RH	Full cure At 60-70% RH
15°C	5 hours	18 hours -	12 days
25°C	3 hours	12 hours -	7 days
40°C	90 minutes	10 hours -	3 days

**Note:** Drying times are dependent on applied film thickness; all data in this catalogue are reported at recommended DFT.

### 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 Sa2½ (ISO 8501-1:1988) or SSPC-SP10. If oxidation has occurred between blasting and application of PU-806, 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-806 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 Sa2 ½ (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

### Application Method:

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

### Application Equipments

Brush	Typically 300 mic can be achieved.
Roller	Typically 700 mic can be achieved in horizontal surfaces and 400 mic in vertical.
Saw Tooth	Typically 1500 mic can be achieved in vertical surfaces.

**Thinner: DO NOT REQUIRED**

**NOT 1:** When coat the joint part of vertical and horizontal, attached reinforcement (glass fiber or fiber) before coating PU-806.

**NOT 2:** 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 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

