CODE: PU-804

PRODUCT NAME:

One Component Moisture Cured Tar-Polyurethane

DESCRIPTION:

PU-804 is a moisture cured tar-polyurethane coating which display excellent corrosion and 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-804 is recommended for harsh environments, where steel or concrete in splash zone or under water, water treatment plants, sewage treatmentplants, Docks, Tanks, offshore rigs and dams.

PU-804 allows smoother surface with less brittleness than the more conventional two component Epoxy coatings.

TECHNICAL DATA:

Binder	Tar-Polyurethane
Pigment	Suitable pigments and Extenders
Finish	Flat
Shade	Black
Specific gravity	1.3 ±0.1 Kg/Lit
Volume solid	65±3%
Flash point	27 ºC
Typical dry film thickness	200-250 Microns
Substrate	Blasted steel, Galvanized and Concrete
Application method	Airless Spray,Roller,Brush
Thinner / Cleaner	T-800
Theoretical spreading rate (200mic)	3.2 M^2/Lit
Packing	5 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 Min Max	Full Cure
15°C	4 hours	14 hours	14 hours 6months	14days
25°C	120 minutes	8hours	8 hours 6months	7 days
40°C	60 minutes	6 hours	6 hours 6months	4 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-800, 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-800 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 Sa2½ (ISO 8501-1:1988) or SSPC-SP6.

Surface preparation shall not take place in the following conditions:

A) At temperature below 5 ºC

B) When the relative humidity greater than 85%

C) When the metal surface temperature is less than 3 ºC 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 0.017-0.021inch 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.

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 ºC above the dew point.

- Never apply coatings under reverse environmental condition.

- In hot climate, material temperature should be 20 to 25 ºC prior to mixing.

For satisfactory cure, air and surface temperature must be above 10 ºC

- Paint shall not be applied when wind speed is in excess of 7 m/s

Air temperature	10 to 40 ºC
Surface temperature	10 to 50 ºC
Material temperature	10 to 30 ºC
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