

CODE: PU-866

PRODUCT NAME:

**Multi Purpose Polyurea Coating**

**DESCRIPTION:**

PU-866 is a solvent free two component polyurea coating. This product cures to form a durable seamless coating to protect steel or concrete .It is ideal for helping to contain leaks and spills of wastewater, fuels and other chemicals in primary and secondary containment areas .It is cured quickly at a wide range of temperatures and in the presence of moisture. It offers excellent resistance to abrasion high heat and high impact .In addition it resists water and acidic and alkaline environments .This 100% solid materials can be sprayed to a desired thickness in a single application with plural component equipment .This product is used for a wide range of protective coating applications.

**TECHNICAL DATA:**

<b>Solids by</b>	100%
<b>VOC(supplied and spray able)</b>	Zero
<b>Mix Ratio by volume</b>	1/1
<b>Gel time</b>	1-20 seconds
<b>Tack Free time</b>	3-120 seconds
<b>Recommended thickness</b>	0.5-2.5 mm
<b>Number of coats</b>	One coat (multi –pass application)
<b>Application Temperature Range</b>	(-20)-(+120) °C
<b>Hardness(shore A)</b>	50-100
<b>Hardness(shore D)</b>	10-75 (DIN 53505)
<b>Cold impact resistance</b>	50-100kj/m (-20)(ISO 180)
<b>Tensile strength</b>	10-30 Mpa(DIN 53504)
<b>Flexural modulus (bending)</b>	50-600 N/mm(ASTM D790)
<b>Elongation</b>	20-800%(DIN 53504)
<b>Abrasion resistance</b>	150-500 mg(ASTM D 4060-90)
<b>Angle tear</b>	50-125 N /mm(DIN 53515)
<b>Trouser tear</b>	20-60 N /mm(DIN 53507)



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## SURFACE PREPARATION

Under License C

To ensure proper adhesion the surface must be clean and free from contamination.

For Concrete:

- ❖ Scarification for severely eroded surfaces removes loose bits & pieces.
- ❖ Grit blasting (closed circuit)
- ❖ Milling (cleaning with rotating discs)
- ❖ Grinding removes fresh concrete skin or old paint.
- ❖ Chemical (e.g. acid etching)

For Steel/Metal:

- ❖ Grit or sandblasting SA2.5
- ❖ Hand tool or power tool grinding which removes flash rust, solid dirt or old paint.
- ❖ Cleaning and degreasing with solvents, water jet or detergents.
- ❖ A Combination might be the preferred choice ,e.g. solvent cleaning followed by blasting
- ❖ A grit blasted surface needs to be coated before flash rust can occur.

## Application Method

PU-866 is applied using a plural component, high pressure, airless spray unit with in-line heaters and heated hose. Material supply (drums of A&B) should be agitated and heated prior to application. Material components A&B should be heated to 70-80 °C upon application to ensure proper mixing and spray ability. Pressure gauges should be 150-180 bars to ensure proper mixing of the material components. If pressure differences of greater than 30 bars exist between components A&B, stop spraying and examine equipment. Spray part with an adequate amount of material to promote good flow and leveling. A final thin coat is recommended over entire part to promote smooth finish.

## ENVIRONMENTAL CONDITIONS:

At the application, the humidity and surface temperature has no influence.



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## HEALTH AND SAFETY:

Avoid contact with eyes and skin, do not inhale or ingest. When working with this material wear goggles, rubber gloves and a respirator. When spraying in a confined area, also wear a fresh air hood and make provision for forced ventilation.

## Application area

- ❖ Construction (Flooring ,roofs ,membranes, containment)
- ❖ Pipes (external and internal & structural repair )
- ❖ Wooden furniture & parquet
- ❖ Corrosion protection

## Advantages

- ❖ High curing speed
- ❖ Application under high humidity and low temperature
- ❖ Seamless and flexible
- ❖ No primer required
- ❖ High mechanical property
- ❖ In one application, can apply to desired thickness.
- ❖ DEP approved for secondary and primary containment.
- ❖ NSF 61 approved for potable water
- ❖ Resistant to many chemicals
- ❖ Resists thermal shock
- ❖ Extreme abrasion resistance
- ❖ Impermeable membranes



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