

CODE: PU-865

**PRODUCT NAME:**

**One Component Moisture Cured polyurethane Flooring**

**DESCRIPTION:**

Pu-865 is an aromatic, liquid applied, single component; moisture cured polyurethane floor coating for use in indoor applications such as industrial plants, mechanical rooms, and locations where surfaces must withstand pedestrian traffic. It may also be used as durable finish that protects interior floors against occasional chemical spillage, dirt, grease and oils. Dusting of concrete floor is minimized when the surface is sealed with PU-865.

PU-865 is intended for interior application only. Coating will discolor if exposed to sunlight. The system can be supplied with a smooth gloss finish, or by the addition of broadcast mineral aggregates and sealer coats can be supplied with an anti-slip profile.

**TECHNICAL DATA:**

Binder	Polyurethane
Pigment	Suitable pigments and Extenders
Finish	Gloss
Shade	Grey-black
Specific gravity	1.2 ±0.1 Kg/Lit
Volume solid	75±3%
Flash point	70 °C
Typical dry film thickness	500-1000 mic
Substrate	Prepared Steel, Concrete
Application method	Conventional Spray,Roller,Brush
Thinner / Cleaner	Not Required
Theoretical spreading rate at 500 mic	1.5 M <sup>2</sup> /Lit
Packing	Base : 4 Kg and 10 Kg
Shelf life	6 Months in unopened pails

**Mechanical Properties (After Curing)**

Tensile Elongation	150 %
Tensile strength	Approx.2000 psi
Adhesion to concrete	390 psi

**Drying Times at 60% Humidity**



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Temp	Touch dry	Hard dry	Overcoating		Full Cure
			Min	Max	
15°C	7-8 hours	24 hours	24 hours	-	5days
25°C	6-7 hours	20hours	20 hours	-	3 days
40°C	5-6 hours	17 hours	18 hours	-	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 should be clean, dry and free from contamination .Prior to paint application all surfaces should be assessed and treated in accordance with ISO8504:1992. Oil or grease should be removed in accordance with SSPC-SP1 solvent cleaning

#### Primed surfaces

EP-360 can be applied over approved primers. The primer surface should be dry and free from all contamination, and PU-865 must be applied within the overcoating intervals specified.

#### Concrete Surfaces

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

All Cracks in the concrete shall be filled by EP- 320 or EP-340, before applying topcoat.

Surface preparation shall not take place in following conditions:

2-When the relative humidity greater than 85%.

3 °C above dew point.

4- Out side day light hours on exterior locations

1-At temperature below 5 °C.

3-When the metal surface temperature is less than

### Application Method:

PU-865 may be applied by all conventional means, including spray equipment, paint rollers, and brushes. The rate of application is typically 3 m<sup>2</sup>/lit.Additional coats may be applied after an overnight cure. It is important not to wait for more than 24 hours before recoating if additional coats are desired. Allow a final cure time of 48 hours before the coating is exposed traffic

### 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

- 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	50 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.

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