

## ECMACOAT FLEX PUR

### Two Component Spray Applied Polyurea Elastomer System

#### Description

**ECMACOAT Flex PUR** is a spray applied 2 component fast curing polyurea elastomer system for high performance waterproofing and protective system. It is free from solvent with 100% solid content (zero VOC). This system is based on polyether resins, amine chain extenders and prepolymers. It provides an extremely flexible, tough, resilient monolithic membrane with excellent water resistance.

#### Areas of Application

- Roofs and roof gardens
- Car park areas
- Tanks and irrigation canals
- Industrial floor surfaces with waterproofing and hard-wearing requirements.
- Bridge deck waterproofing
- Basement waterproofing
- Waste water tank lining

#### Advantages

- Green product – 100% solid with zero VOC
- Spray applied, large areas can be covered in short time span.
- Very high mechanical properties
- Excellent crack bridging capacity.
- Excellent chemical resistance
- Excellent low and high temperature flexibility
- Joint Free

#### Technical Specification

Part A Specific Gravity at 27°C	1.134
Part B Specific Gravity at 27°C	1.018
Solid content, % (w/w)	100
Mixing Ratio, by volume	1:1
Gel time	5 – 15 Seconds
Elongation at break, %, ASTM D412	350 ± 50
Tensile Strength, N/mm <sup>2</sup> , ASTM D 412	18±2
Tear Resistance, N/mm, ASTM D 624C	80±10
Hardness Shore A	90±5
Chemical Resistance	Resistant to most chemicals, Consult ECMAS Technical Team
Anti root property	Yes
Service temperature	-40°C to +140 °C
Recommended thickness and Coverage	1.5-3 mm; 1kg/mm/m <sup>2</sup>

## Application Instruction

### Surface Preparation

Before spraying ECMACOAT Flex PUR, it is important to remove all loose particles, residual paint, oil, rust, dust, and other impurities. All major cracks should be sealed prior to application of ECMACOAT Flex PUR. To maximize cohesion ECMACOAT Prime PU is to be used on the substrate. Ensure that moisture content of the substrate is not more than 6-7%.

### MIXING

Mix well before use. The polyols should be thoroughly mixed.

### Application

A high pressure plural component spray equipment fitted with temperature controller is used to apply ECMACOAT Flex PUR. Main coat is applied on the primer coat. Recoating / topcoat should be carried out within 24 hours after the application main coat.

### Limitation:

- Apply when ambient temperature +5 °C ~ 35 °C
- Surface temperature must be at least +3 °C above dew point
- Relative humidity must be less than 85%
- Need preheating of A, B Component to 35~55°C
- Recommend using 'Drum heating band' for preheating.
- Need to mix well the toner in B Component. Some part of the toner may be settled down to bottom.

### Packaging

Part A- 210 Kg Drum and Part B- 200 Kg Drum

### Shelf Life

12 Months in original unopened sealed condition.

### Storage & Handling

Material should be stored in Cool and Dry shade. Please avoid stacking of containers and handle carefully during transport.

### Safety Precautions

Wear all PPE's at the of Application like Safety boot, Safety Goggle, Hand Gloves, Mask and avoided with contact of Skin and Eyes. Any direct skin contamination with the hardeners should be washed off immediately with soap and water.

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