

# SpECTite PUFlex

ONE-COMPONENT, HIGH ELASTIC POLYURETHANE WATERPROOFING MEMBRANE

## DESCRIPTION

**SpECTite PUFlex** is a one-component high build polyurethane polymer based elastomeric coating. The dry film possesses superior physical properties. The dry membrane is water tight, seamless, durable, tough, highly flexible and weather resistant.

**SpECTite PUFlex** utilises the latest in polyurethane technology to perform as a UV resistant membrane with excellent durability even in harsh/hot Middle East climatic conditions.

## TYPICAL USES

**SpECTite PUFlex** may be used for the following situations:

- Waterproofing of roofs (asbestos, cement tile terrazzo and concrete)
- Waterproofing of domes, arches, terraces, balconies, sunshades & parapet walls
- Wet area, i.e. under tiles in bathroom, kitchen and shower areas, swimming pools
- Waterproofing over old refurbished roof
- Metal Roof Application

## ADVANTAGES

- One-component ready to use, light weight compared to conventional roof system
- Formulated to withstand harsh Middle East climate
- Non-flammable and non-hazardous
- Highly elastic and UV resistant
- High crack building capability

## TECHNICAL DATA

<b>Appearance</b>	Thixotropic coating
<b>Full cure</b>	7 days
<b>Solids content</b>	65±3%
<b>Density (ASTM D1475)</b>	1350±50 kg/m <sup>3</sup>

## Elongation

**(ASTM D882)** 500±50%

## Crack Bridgeability

**(ASTM C836)** 3.0±0.5mm

## Tear resistance

**(ASTM D624)** 6±2 kN/m

## Shore A Hardness

**(ASTM D2240)** 45±5

**Service temperature** -5°C - 90°C

## APPLICATION

### Surface Preparation

Surfaces must be dry and free from oil, dust, dirt, grease and loosing materials. The substrate should be firm, in case of gaps and cracks fill with suitable polysulphide sealant and ensure the surface is level.

### Substrate Priming

In most cases, the substrate should be primed with either **SpECTite PUFlex Primer** or **SpECTite HP600 Primer**. SpECTite PUFlex can be applied once the primer becomes tack-free. For detailed information on tack-free and inter-coating times, please refer to the technical data sheet of each primer.



### Application

Stir well before use. Do not apply if rain is expected within 24 hours. Apply the material using brush or roller. A second coat is applied at right angle to the first coat, after the first coat is dry. It is recommended to apply two coats of **SpECTite PUFlex** to get a thickness of 1mm. Multiple coats can be applied to achieve higher thickness. Embed

fiber mesh around all corner joints, fillets, pipe penetration, pipes, over cracks, drains and where substantial movement is anticipated. Lay fibre mesh in the wet first coat before the application of subsequent coats.

### **Curing**

It requires 24 hours to dry in between 2 coats and 48 hours curing is adequate for foot traffic. Low temperature and high humidity will slow down the curing process. 7 days are required for full cure. In case of expected rains, do not apply **SpECTite PUFlex**. Ensure curing is complete before laying thermal insulation board mechanical protection and other coverings.

### **APPLICATION TEMPERATURE RANGE**

5 °C to 50 °C

### **EQUIPMENT CLEANING**

**SpECTite PUFlex** should be cleaned from equipment using soap and water immediately after application.

### **PACKAGING & YIELD**

**SpECTite PUFlex** is supplied in 18 litres pail with a coverage rate of 1 m<sup>2</sup>/litre at 1mm thickness.

**SpECTite PUFlex Primer** is supplied in 18 litres pail with a coverage rate of 7-10 m<sup>2</sup>/litre.

### **STORAGE & SHELF LIFE**

When stored in a cool environment in original unopened containers, the material has a shelf life of 12 months.

### **LIMITATIONS**

Do not use **SpECTite PUFlex** in poor drainage areas that will be constantly underwater. It applies only in case it is exposed without any protection layer.

### **PROTECTION FROM MECHANICAL DAMAGE**

The cured membrane could be damaged by sharp objects and should be protected against damage and site abuse by other trades. Terminates the edge of the coatings securely to avoid peeling-off. Protect the coating with cement screed in heavy traffic areas. This should be done after 48 hours of curing.

### **HEALTH AND SAFETY**

Eyes should be protected from splashes by wearing goggles. In the event of contact with your eyes irrigate immediately with clean water and seek medical attention.

Skin contact should be avoided by wearing protective gloves and outer clothing. The product may be removed from the skin when wet by water and soap, and when dry by using a proprietary hand cleaner.

If ingested, seek medical attention immediately.

### **FLAMMABILITY**

**SpECTite PUFlex** is a non-flammable and non-hazardous in normal use.

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