



# Multithane<sup>®</sup> XtraFlex

High Strength 2-K Pure Polyurea based Elastomeric Waterproofing Coating

## INTRODUCTION:

**Multithane<sup>®</sup> XtraFlex** is a new development on hand applied pure polyurea elastomeric membrane cures by reaction to give a continuous film, which is rubbery and elastic with tensile strength of 18 N/mm<sup>2</sup>. **Multithane<sup>®</sup> XtraFlex** is a very high solids coating designed to give a high-build film with negligible VOC. It can be brush or spray applied (with airless spray equipment) or even troweled.

Since it is elastomeric, **Multithane<sup>®</sup>** is not adversely affected by extremes of temperature consequently it does not crack at low temperatures or suffer thermal blow at elevated temperatures.

**Multithane<sup>®</sup> XtraFlex** is available in following grades:

**Multithane<sup>®</sup> XtraFlex SL** : (self-leveling/squeegee)  
(spray)

**Multithane<sup>®</sup> XtraFlex S** :

**Multithane<sup>®</sup> XtraFlex T** : (thixotropic/trowel)  
(roller)

**Multithane<sup>®</sup> XtraFlex R** :

**Multithane<sup>®</sup> XtraFlex** white is more suited for roof/terrace which is exposed to UV rays. For additional protection use **Multithane<sup>®</sup> Expo** for at 120 to 250 micron thickness over **Multithane<sup>®</sup> XtraFlex**.

## USES:

- Cured concrete substrate e.g. roofs (Flat or sloping), balconies, and decks
- All metal roofs
- All prefabricated Concrete Structures
- Terrace, Podium, Water Tanks, Terrace Garden, Flyover and Bridge deck
- Basement and retaining wall
- Crack bridging membrane

**Multithane<sup>®</sup> XtraFlex** elastomeric membrane is designed to bond to many types of substrate particularly those commonly used as roofing, such as felt, asphalt, slate, tiles, asbestos, concrete, brick, wood glass and metals with appropriate primers. However, it is essential that substrate and structures are properly prepared and stable. Surfaces previously treated with silicone based materials will be difficult to overcoat.

## General Introduction:



**Multithane<sup>®</sup> XtraFlex** offer the following benefits:

- High temperature stability.
- Low temperature flexibility down to –20 degree.
- Dirt pick-up resistance.
- Excellent adhesion to polyurethane foam and many other substrates.
- Easy application by spray, brush, or roller-thus lowering application costs.
- Low toxicity and odour.

## Tensile Strength and Elongation

Thermal movement of some structures requires high tensile strength and elongation as well. The tolerance for movement of these coatings is essential due to the dynamic nature of a substrate which expands and contracts due to climatic conditions and the shifting and settling of the foundation.

These properties also give property-formulated elastomeric coatings the needed flexibility and elasticity to withstand impact from foot or vehicle traffic and other abuse without rupturing.

## Stop Leaks

**Multithane<sup>®</sup> XtraFlex** stops most small holes in the substrate by application directly to surface substrate. It is designed for complete waterproofing of substrate.

## TYPICAL CHARACTERISTICS & OTHER DETAILS:

PROPERTIES	VALUES
<b>Nature</b>	2 Component Ready to Use Material
<b>Colour</b>	White / Gray/Other Selected Colours
<b>Solid Content</b>	100%
<b>Pot Life at 30°C</b>	60 minutes
<b>Hard dry time at 30°C</b>	8 to 10 hours
<b>Complete curing time at 30°C</b>	3 days
<b>Recoat ability time at 30°C</b>	4 to 5 hours
<b>Finish</b>	Smooth and matt
<b>Coverage</b>	1.20 kg/m <sup>2</sup> for 1.0 mm thickness (Provide extra consumption based on site conditions such as roughness and porosity)
<b>Tensile Strength (ASTM D412)</b>	15 MPa @ 25 °C (2mm Thickness)
<b>Tear Resistance, N/mm</b>	>40



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<b>Elongation (ASTM D412)</b>	> 900% @ 25 °C (2mm Thickness)
<b>Recommended Coats</b>	2 to 3 coats depending upon the substrate
<b>Packing</b>	4kg, 10kg, 20kg

## Warranty

**Multithane<sup>®</sup> XtraFlex** warranty available in five (5), ten (10), fifteen (15) and twenty five (25) year periods. The warrantor guarantees the installations against leaks caused by normal weather. Refer to individual warranty document for additional information.

## APPLICATION GUIDELINES:

### Surface Preparation

Surface preparation and use of suitable primer is very important while applying **Multithane<sup>®</sup> XtraFlex**. All surface must be clean and dry and free of any dust, dirt, oil, surface chemicals or other contaminants that may interface with optimum adhesion. All loose gravel, if present, shall be removed by power sweeping and/or vacuuming. Remaining gravel shall be power spud to achieve the smoothest surface possible. Any unsound areas in the roof, i.e. blisters, delamination, deterioration, moisture saturation, severe corrosion, sharp projections, ridges, etc. shall be repaired or replaced.

Low areas that hold excessive ponding water must be brought into conformance by installing additional drains or adding additional slope to the existing drains.

### Priming

After proper surface preparation, use **MultiThane Primer 21** to prime complete surface as per thickness advised in Technical Data Sheet. Allow primer to touch-dry before proceeding with application of **MultiThane XtraFlex**.

### Mixing

Mix part B separately to get uniform paste. Transfer the material to another pail and again mix the same. Now put component A into B together and mix the material to get uniform colour. Use a power mixer capable of uniformly mixing the entire container prior to use. Reducing the mixture is not recommended, as it affects the coating's ability to achieve a heavy film build with excellent vertical hold and hide.

### Application





DATASHEET

# Multithane<sup>®</sup> XtraFlex

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Reinforce all moving cracks, seams, splits, control joints, verticle/ horizontal interfaces, roof termination pints, openings, transition areas, around the base of all vents pipes and other protrusions, as well as around HVAC units and other roof mounted equipment with Fibrecon Mesh, a polyester reinforcement fabric, embedded in to **Multithane<sup>®</sup> XtraFlex**.

All preparation materials shall be allowed to dry thoroughly prior to application of the **Multithane<sup>®</sup> XtraFlex** coating (Including primers).

## STORAGE:

Store in dry, frost-free conditions at moderate temperatures not greater than 25 °C.

## WARRANTY

Multichem warrants **Multithane<sup>®</sup> XtraFlex** to be free from manufacturing defects as defined in this warranty. Manufacturing defects are those defects that occur due to the quality of the ingredients or from the manufacturing process itself. This warranty does not include labor costs and other costs or expenses associated with the removal or installation of **Multithane<sup>®</sup> XtraFlex**.

Because the Multichem does not perform the actual installation, it cannot be held responsible for the results of the application. Multichem specifically disclaims problems that occur due to weather conditions, structural movement, structural design flaws and application techniques.

This warranty is in lieu of all other warranties expressed or implied including the warranty of merchantability and fitness of purpose and of all other obligations or liabilities on Multichem part. Multichem neither assumes nor authorizes any person to assume for Multichem any liability in connection with the sale and installation of **Multithane<sup>®</sup> XtraFlex**.

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