



# MULTITHANE ATC

MULTITHANE ALIPHATIC TOP COAT - PROVIDES GREATER UV PROTECTION  
& COLOUR FASTNESS FOR MULTITHANE MEMBRANES

## DESCRIPTION

**Multithane ATC is Cross Linked Moisture curing Polyurethane single pack liquid applied topcoat.**

Duram **Multithane ATC** is single pack, aliphatic polyurethane waterproofing topcoat which has been formulated as a complimentary and compatible top coat for **Multithane UVR** and **Duram 195**. Aliphatic technology provides greater UV protection, colour fastness and anti-chalking properties and is designed to extend the life of exposed aromatic polyurethanes. **Multithane ATC** forms a tough, flexible, seamless, highly UV stable, waterproof coating.

**Multithane ATC** meets the 'Green Star' environmental criteria.

**The Duram has been an industry leader for over 30 years.**

## USES

**Multithane ATC** is primarily formulated as a highly UV stable topcoat over **Multithane** range including UVR and **Duram 195** to give greater long-term UV protection and colour fastness thereby extending the life and performance of the waterproofing membrane.

## SUITABLE SURFACES

**Multithane ATC** has been formulated as topcoat over **Multithane UVR** and **Duram 195**.

## BENEFITS AND ADVANTAGES

**Multithane ATC** represents the highest standards in aliphatic polyurethane waterproofing technology and provides the following benefits and advantages:

- Compatible with Duram Polyurethane Waterproofing Membranes.
- Provides excellent UV protection.
- Trafficable (Foot) It is also ideal as a stand-alone trafficable coating.
- Extends the life of the waterproofing membrane system.
- Single pack – no mixing.
- Fast curing (usually within 24 hours)
- Permanently flexible.
- Suitable for immersion in water.
- Good chemical resistance.
- High strength and puncture resistant.
- Provides seamless membrane (no joints or laps)
- Easily repaired and maintained.
- Odourless (subjective) when cured.
- Formulated to provide long term protection.
- Easy to apply.
- Has good hydrostatic resistance.

## SPECIFICATION

The information contained in this product data sheet is typical but does not constitute a full specification as conditions and specific requirements may vary from project to project. The instructions should be considered as a minimum requirement, but the applicator or contractor must use their skill, knowledge and experience to carry out additional works as may be necessary to meet the requirements of the project. Specification for specific projects should be sought from the Company in writing.

## LIMITATIONS

- **Multithane ATC** is not suitable for direct contact with high concentrations of chlorine above 10ppm.
- **Multithane ATC** cannot be applied directly to damp surfaces as this will cause gassing and bubbling of the membrane.
- **Multithane ATC** cannot be applied to slightly damp surfaces the product will not adhere. The surface must dry before the membrane can be applied, freedom from surface water and continual dampness is essential.

## PRECAUTIONS IN USE

Risk is considered low when properly used. Precautions on can, label and / or data sheets should be observed. Use in well ventilated areas. Uncured product is combustible so keep all sources of ignition away from product and its vapours.

## SURFACE PREPARATION

Good preparation is essential. Surfaces must be sound, stable, dry, clean and free of dust, loose, flaking, friable material and substances that may diminish adhesion.

### New membranes.

Providing the existing membranes are clean, dry and that the **Multithane ATC** is being applied within 24 hours of applying the Multithane membranes - no other preparation is required. If the existing membranes have been contaminated refer to 'TO EXISTING MEMBRANES' below.

### Existing membranes.

**Multithane ATC** may be applied to 'aged' **Multithane** membranes. These surfaces should be dry, clean and free of dirt, dust and contaminants and should be suitably cleaned depending upon the type of contaminant, e.g. if oil, then clean with detergent, flushed and allowed to dry. The surface should be wiped down with **Duram Solvent** to 'rejuvenate' the top layer, allowed to flash off before applying the **Multithane ATC**.

### Applicator must carry out test sample areas for performance and adhesion if not primed

Surfaces should ideally be suitably primed with **Duram Primeseal MC** applied at no less than 1 Lt per 4m<sup>2</sup> or **Duram Primeseal SP** applied at 1Lt per 7m<sup>2</sup> and allowed to dry, primers need to be applied at no less than the relevant Duram Primer TDS

### Blow Holes.

Blow-holes and surface imperfections must be made sound and filled with **Resiflex FC** sealant or alternatively a non-shrink mortar, finished flush with the surface. Allow to cure and dry.

## PRIMING

As its main purpose is to be applied over cured **Multithane UVR** and **Duram 195**, it can be applied as follows:

### New membranes.

Providing the existing membranes are clean, dry and that the **Multithane ATC** is being applied within 24 hours of applying the Multithane membranes - no other preparation is required. If the existing membranes have been contaminated refer to 'TO EXISTING MEMBRANES' below.

### Existing aged membranes.

**Multithane ATC** may be applied to 'aged' **Multithane** membranes. These surfaces should be dry, clean and free of dirt, dust and contaminants and should be suitably cleaned depending upon the type of contaminant, e.g. if oil, then clean with detergent, flushed and allowed to dry. The surface should be wiped down with **Duram Solvent** to 'rejuvenate' the top layer, allowed to flash off before applying **Duram Primeseal SP** for re-activating Duram **Multithane** and **Duram 195** membranes before applying the **Multithane ATC**.

### Remedial works& Touch-ups:

These surfaces should be dry, clean and free of dirt, dust and contaminants and should be suitably cleaned depending upon the type of contaminant, e.g. if oil, then clean with detergent, flushed and allowed to dry. The surface should be wiped down with **Duram Solvent** to 'rejuvenate' the top layer, allowed to flash off before applying the **Multithane ATC**.

## **Applicator must carry out test sample areas for performance and adhesion if not primed**

Surfaces should ideally be suitably primed with **Duram Primeseal MC** applied at no less than 1 Lt per 4m<sup>2</sup> or **Duram Primeseal SP** applied at 1Lt per 7m<sup>2</sup> and allowed to dry, primers need to be applied at no less than the relevant Duram Primer TDS.

## **DETAILING PREPARATION**

As per relevant TDS of chosen membrane selection.

## **APPLICATION**

Apply **Multithane ATC** by brush, roller, and broom or squeegee so that the dry film thickness is 300 microns. The second coat is best applied within 24 hours to achieve inter-coat adhesion bonding and avoid the need to reprime. **Multithane ATC** is an aliphatic based polyurethane top coat which extends the life of the exposed membrane. When top coating **Multithane Range or Duram 195**, with **Multithane ATC**, allow membrane to cure and then apply **Multithane ATC** at the approximate rate of 3 to 4 m<sup>2</sup> per Lt.

## **COVERAGE**

Coverage rate varies depending upon type, condition, porosity, texture of the surface and application technique. **Multithane ATC**: Generally, 3 m<sup>2</sup> per litre per coat application.

## **DRYING AND CURING**

Drying and curing of the product is affected by type, dryness and porosity of the surface, temperature, humidity, ventilation, climate conditions and application technique and therefore drying and curing can only be given as a guide.

Generally, **Multithane ATC** is touch- dry within 4 to 6 hours with full cure within 24 hours. Recoat between 6-24 hours.

## **TILING, TOPPING OR TOP COATING**

**Multithane ATC** is usually not tiled or covered:

## **COLOURS**

Grey. Colour may lighten after application in direct sunlight. Note: Slight colour variation may occur between batches.

## **STORAGE AND PACKAGING**

Keep in cool, dry place away from heat, flame or combustible material. Product contains flammable solvents. Available in 15 Lt Pails. 15 litres equates to 17.5kg.

Shelf life: 6 months in unopened container, best used within that period. As this is a moisture curing polyurethane some skinning of the product may occur. This should be cut out and removed. Balance of the product will be suitable for use.

## **SAFETY AND PRECAUTIONS**

**Multithane ATC** is solvent based. Keep container in safe, ventilated area. Wear appropriate PPE during use. The use of solvent resistant gloves and goggles (against splashes) are recommended. If spraying, which is very rare, the use of self-contained breathing apparatus is recommended. If swallowed do not induce vomiting, give plenty of water to drink. Seek urgent medical advice. If in eyes, flush thoroughly with clean water, holding lid open to ensure any trapped product may be flushed away. Seek medical assistance. If on skin, remove contaminated clothing and wash skin with soap and water. This may not remove the product but will encourage it to cure and can later be peeled off. If inhaled, unlikely due to viscosity of the product, remove person to fresh air and apply artificial respiration if required and seek urgent medical attention. Ensure adequate ventilation. Vapours may collect in low lying areas.

For full safety data refer to the SDS. Observe precautions as per label.

## TESTS AND TECHNICAL DATA INFORMATION

Multithane ATC represents the highest standards in Cross Linked Moisture curing Polyurethane waterproofing technology

Property	Test Method	Units	Specification
Viscosity at 25°C	ASTM D2196	Centipoise	4000 - 6000
Specific Weight	ASTM D1475	Kg/Lt	1.3 – 1.4
Weight Solids	Theoretical	%	85
Minimum Total Coverage @ DFT = 840 microns		Sqm/Lt	0.9 – 1.1
Tack Free Time @ 25°C & 55% R.H.		Hours	6 – 12
Recoat Time		Hours	24
Flash Point (Closed Cup)	ASTM D93	°C	>60 °C
Service Temperature		°C	-40 – 80
Max Shock Temperature		°C	200
Hardness	ASTM D2240	Shore A	80
Tensile Strength at Break	ASTM D412	Kg/cm <sup>2</sup>	90
Percent Elongation @ 23°C	ASTM D412	%	>600
Percent Elongation @ -25°C	ASTM D412	%	200
Water Vapour Transmission	ASTM E96	g/m <sup>2</sup> /hr	0.8
Adhesion to Concrete	ASTM D4541	Kg/cm <sup>2</sup>	>20
Thermal Resistance 100 Days @ 80°C	EOTA TR011		Passed
QUV Accelerated Weathering	ASTM G53		Passed 2000 hours

## CONDITIONS OF USE AND DISCLAIMER

The information contained in this TDS is given in good faith based upon our current knowledge and does not imply warranty, express or implied. The information is provided and the product is sold on the basis that the product is used for its intended purpose and is used in a proper workmanlike manner in accordance with the instructions of the TDS in suitable and safe working conditions. Under no circumstances will the Company be liable for loss, consequential or otherwise, arising from the use of the product.

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**The Ultimate in Waterproofing & Protective Coating Technology**

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