



# Multithane ATC

Multithane Aliphatic Topcoat - Provides Greater UV Protection & Colour Fastness For Multithane Membranes

## PRODUCT DESCRIPTION

Multithane ATC is a cross linked, moisture curing, single pack, liquid applied aliphatic polyurethane waterproofing topcoat which has been formulated as a complimentary and compatible top coat for Duram Multithane range 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.

## USAGE/PURPOSE

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

## PACKAGING

15 Lt pail. 15 Litre of Multithane ATC equates to 17.5kg.

## COLOUR

Grey.

## 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.

## STORAGE

Keep in cool, dry place away from heat, flame, or combustible material. Product contains flammable solvents.



## FEATURES & BENEFITS

- Compatible with Duram Polyurethane Waterproofing Membranes.
- Provides excellent UV protection.
- It is also ideal as a stand-alone pedestrian traffic coating.
- Extends the life of the waterproofing membrane system.
- Fast curing (usually within 24 hours).
- Permanently flexible.
- Good chemical and hydrostatic resistance.
- High strength and puncture resistant.
- Provides seamless membrane (no joints or laps).
- Easily repaired and maintained.

## TYPICAL PHYSICAL PERFORMANCE

PERFORMANCE TEST	TEST METHOD	TYPICAL VALUES
Viscosity at 25°C	ASTM D2196	4000 - 6000 Centipoise
Specific Weight	ASTM D1475	1.3 - 1.4 Kg/Lt
Weight Solids	Theoretical	85%
Minimum Total Coverage @ DFT = 300 microns		2.5 - 3.0 m <sup>2</sup> /Lt
Tack Free Time @ 25°C & 55% R.H.		6 - 12 hours
Recoat Time		24 hours
Flash Point (Closed Cup)	ASTM D93	>60°C
Service Temperature		-40 to 80°C
Max Shock Temperature		200°C
Hardness	ASTM D2240	80 Shore A
Tensile Strength at Break	ASTM D412	90 Kg/cm <sup>2</sup>
Percent Elongation @ 23°C	ASTM D412	>600%
Percent Elongation @ -25°C	ASTM D412	200%
Water Vapour Transmission	ASTM E96	0.8 g/m <sup>2</sup> /hr
Adhesion to Concrete	ASTM D4541	>20 Kg/cm <sup>2</sup>
Thermal Resistance 100 Days @ 80°C	EOTA TR011	Passed
QUV Accelerated Weathering	ASTM G53	Passed 2000 hours



### LIMITATIONS

- ❑ Not suitable for direct contact with high concentrations of chlorine above 10ppm.
- ❑ Cannot be applied directly to damp surfaces as this will cause gassing and bubbling of the membrane.
- ❑ 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.

### COVERAGE/YIELD

Coverage rate varies depending upon type, condition, porosity, texture of the surface and application technique.

Generally, 3m<sup>2</sup> per litre per coat application.

### SUITABLE SURFACES

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

### 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.

### BLOWHOLES

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

### PRIMING

- ❑ Surfaces should ideally be 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.

As its main purpose is to be applied over cured Multithane range 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 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.
- ❑ **Remedial Works and 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.

### 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.
- ❑ 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 litre.

### 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:

- ❑ Touch Dry: within 4 - 6 hours.
- ❑ Full Cure: within 24 hours.
- ❑ Re-coat: between 6 - 24 hours.

### TILING, TOPPING OR TOP COATING

Multithane ATC is usually not tiled or covered.

### CLEAN UP

Avoid spills. They are difficult to clean particularly on porous surfaces. On concrete and non-porous surfaces for wet spills use a cloth and Duram Solvent.

Do not clean off carpets as it is better to allow product to cure and then shave the carpet. Equipment should be immediately cleaned with Duram Solvent.

### 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. 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.

### HEALTH & SAFETY PRECAUTIONS

Use in well ventilated areas. Uncured product is combustible so keep all sources of ignition away from product and its vapours.

The Safety Data Sheet (SDS) must be read and understood prior to use.

### 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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