

Product Data Sheet

Multithane ATC

Mutithane Aliphatic Top Coat - Provides Greater UV Protection & Colour Fastness For Multithane Membranes

Description

Duram Multithane ATC is single pack, aliphatic polyurethane waterproofing top coat which has been formulated as a complimentary and compatible top coat for Multithane UV 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' enviromental criteria.

Uses

Multithane ATC is primarily formulated as a highly UV stable top coat over Multithane UV 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 have been formulated as top coat over Multithane UV and Duram 195.

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

Suitable for maintenance foot traffic and not intended as a general trafficable membrane.

Benefits and Advantages

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

- » Compatible with Multithane and Duram 195 waterproofing membranes.
- » Provides excellent UV protection.
- » Extends the life of the waterproofing membrane system.
- » Meets the 'Green Star' environmental criteria.
- » Single pack - no mixing.
- » 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 or maintained.
- Odourless (subjective) when cured.
- Formulated to provide long term protection.
- Tar free- does not bleed.
- Easy to apply.
- Has good hydrostatic resistance.
- Usually grey but can be made in other colours (minimum quantities apply)

Precautions in Use

Risk is considered low when properly used but precautions on can, label and / or data sheets should be observed. Do not use in confined areas with poor ventilation. Uncured product is flammable.

Priming and 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.

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

OVER NEW MEMBRANES

Providing the existing membranes are clean, dry and that the Mutithane ATC is being applied within 48 hours of applying the Mutithane membranes - no other preparation is required. If the existing membranes have been contaminated refer to 'TO EXISTING MEMBRANES'

below.

TO 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.

Application

Apply Multithane ATC to Multithane UV and Duram 195 membranes by brush, roller, broom and squeegee usually in one or two coats at the rate of 3m² per litre per coat, so that the minimum dry film thickness is 300 microns.

Coverage

The stated average coverage rate may vary depending upon type, condition, porosity, texture of the surface and application technique.

Multithane ATC Top Coat: Generally, 3m² per litre per coat.

Colours

Generally grey. Can be manufactured in some other colours but minimum quantities may apply.

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 weather resistant within 6 to 8 hours with full cure within 24 hours.

Storage

Keep in cool, dry place away from heat, flame, combustible material and all sources of ignition. Product contains flammable solvents. Class 3 dangerous goods must be declared prior to transportation. Available in 5 and 15 lt pails.

Self life: 6 - 12 months in unopened container but best used within 6 months. As this is a polyurethane some skinning of the product may occur. This should be cut out and removed. Balance of the product will be suitable for use.

Clean Up

Avoid spills. They are difficult to clean particularly off porous surfaces. 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.

Tiling, Topping or Top Coating

Generally not covered, although membrane may be covered with drainage cloth and pebbles, ensuring not to damage membrane.

Safety & Precautions

Multithane ATC is solvent based. The use of solvent resistant gloves and goggles (against splashes) are recommended. Use in ventilated areas. If spraying, in confined areas 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 open lid to ensure any trapped product may be flushed away. If on skin, remove contaminated clothing and wash skin with soap and water. 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. Product is flammable when wet. Keep away from all sources of ignition. Ensure adequate ventilation. Vapours may collect in low lying areas.

For full safety data refer to the products Material Safety Data Sheet. Observe precautions as per label.

Tests and Technical Data

Information below is general and approximate. MULTITHANE has been tested by CSIRO [Test Report 3142] and passes AS4858:2004 Wet Area Membranes Elongation at break: 686% Class 111 High Extensibility. Resistance to Cyclic Movement: 50 cycles without rupture, tears and crazing.

Conditions of Use and Disclaimer

The information contained in this Material Data Sheet 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 Product Data Sheet 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.

Material Safety Data Sheet

Multithane ATC

Mutithane Aliphatic Top Coat - Provides Greater UV Protection & Colour Fastness For Multithane Membranes

Classified as a hazardous material according to the criteria of the NOHSC.

Identification	Physical Description	Ingredients															
Product Name: Multithane ATC Other Names: Duram Multithane ATC U.N. Number: 1866 Class: III LABEL: Xn & Xi Hazchem Code: 3[Y] Poison Schedule: S6 Pack Sizes: 5 ltr & 15 ltr pails.	Appearance: Coloured or clear low viscosity liquid. Boiling Point: Approximately 300°C Vapour Pressure: Not known but approximately 6.00 (Xylene) Percent Volatiles: +-40% Specific Gravity: 0.9 to 1.00	<table border="1"> <thead> <tr> <th>Chemical</th> <th>CAS No.</th> <th>Proportion</th> </tr> </thead> <tbody> <tr> <td>Urethane Polymer.</td> <td>Not known.</td> <td>30-60%</td> </tr> <tr> <td>Inert Fillers.</td> <td>Not known.</td> <td>10-30%</td> </tr> <tr> <td>Xylene.</td> <td>1330-20-7</td> <td>30-60%</td> </tr> <tr> <td>Minor Ingredients</td> <td>Not known</td> <td><5%</td> </tr> </tbody> </table>	Chemical	CAS No.	Proportion	Urethane Polymer.	Not known.	30-60%	Inert Fillers.	Not known.	10-30%	Xylene.	1330-20-7	30-60%	Minor Ingredients	Not known	<5%
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Flash Point:	Not known but 28oC (Xylene)	Dicyclohexylmethane-4,4'-Diisocyanate	5124-30-1	< 1%
Flammability:	1.1-7.0%			
Water Solubility:	Insoluble. Reacts with water releasing carbon dioxide.			

Uses:

As a top coat over Multithane UV to provide additional UV protection to the Multithane waterproofing membrane to enhance and extend its life.

Health Warning Information

Health Effects

Swallowed: Harmful if swallowed. May cause irritations to mouth, throat, stomach, tongue and lips and may lead to mucous build up, irritation and pain, nausea, vomiting and diarrhea. Vomiting may cause product to be aspirated into lungs, which may cause chemical pneumonia.

Eyes: May cause irritation, stinging and burning. Long term exposure can cause damage.

Skin: Irritation burning sensation with redness, itchiness and possible dermatitis

Inhaled: Harmful if inhaled. Effects may be immediate or delayed. Mild cases: Irritation to mouth, nose or throat with coughing, wheezing or tightness of the chest. Severe cases: Person may suffer acute bronchial irritation with asthma like symptoms. It is unlikely that the product would be inhaled due to its viscosity. Inhaled matter is likely to be Xylene and product traces.

First Aid

Swallowed: DO NOT induce vomiting. Put person at rest and seek medical urgent advise.

Eyes: Flush eyes with copious amounts of clean water holding eye lid open. Seek medical attention.

Skin: Wipe product off skin, wash skin with soap and warm water. Apply moisturising cream. Seek medical advice.

Personal Protection: The use of solvent resistant gloves, coveralls, safety boots and goggles (against splashes) are recommended.

Keep flame, sparks and sources of ignition away from uncured product.

Advice to Doctor

Treat Symptomatically. Asthmatics are susceptible to asthma attack if exposed to isocyanates.

There may be a delayed response up to 12 hours after exposure.

In case of poisoning, contact Poison Information Centre: Australia Telephone: 131126; New Zealand Telephone 034747000

Precautions in Use

Follow normal good industrial hygiene and chemical precautions, particularly in respect of flammability. Use in well ventilated areas and provide flame proof artificial ventilation if required to maintain concentrations below xylene exposure standard of 350g/m² (TWA) 655 mg/m² (STEL) or 100ppm.

Keep sparks and ignition sources away from product during application, as product is flammable.

Wear solvent resistant gloves, goggles, coveralls, safety boots.

Exposure Limits

No exposure limits are available for this product, however the NOSHSC have assigned the following limits for the components of the product:

Xylene: TWA 80ppm or 350mg / m³ STEL 150ppm 655 mg / m³

ACGIH: TWA 100ppm or 434mg / m³ STEL 150ppm 651 mg / m³ Carcinogen category: A4

Notices: BEI

1-Methoxy-2-Propanol Acetate: TWA 50ppm 254 mg / m³ STEL 100ppm 548 mg/m³

Notices: Sk

Dicyclohexymethane-4,4'-Diisocyanate (NOHSC Australia: Isocyanates, all (as -NCO) TWA 0.02 mg / m³ STEL 0.07 mg / m³ Notices: Sen

Ventilation

Good ventilation is important and recommended.

ENGINEERING CONTROLS:

Flammable liquid. Eliminate all sources of ignition until fully cured. Vapours may accumulate in low lying areas which should be dispersed.

Personal Protection

The use of solvent resistant gloves, coveralls, safety footwear and goggles (against splashes) are recommended.

If exhaust ventilation is inadequate use approved respirator.

Safe Handling Information

Storage and Transport

Store in a cool dry place, away from direct sunlight and ignition sources. Store away from strong acids, alkali, oxidizing agents and combustibles. Keep containers tightly sealed when not used. Protect from damage.

Suitable containers: Plain metal pails as recommended by manufacturer.

Class 3 dangerous goods must be declared prior to transportation.

Ensure containers are correctly labeled and leak free.

Spills and Disposal

Spills: Wear protective clothing. Remove sources of ignition. Ventilate area. Prevent spills from entering drains and waterways. Absorb with wet sand or oil absorbing material. Do not use saw dust or other combustible material. Place in to suitable containers and DO NOT seal containers. Discard to suitable landfill in accordance with local council regulations.

Disposal: Shovel into drums, incinerate or land tip in accordance with local regulation. Do not allow product to enter drains or waterways.

Fire / Explosion Hazard

STABILITY & REACTIVITY: Stable under normal conditions. Will become unstable and may lead to explosion if mixed with oxidizing agents. Emits toxic fumes including oxides of carbon and nitrogen, hydrogen cyanide and isocyanate vapours when heated to decomposition.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions of use.

FIRE-FIGHTING MEASURES:

MEDIA: Use dry chemicals, carbon dioxide or foam.

SPECIAL PROCEDURES: Fire fighters should wear SCBA's.

UNUSUAL HAZARDS: Vapours may travel and pose a risk from other sources of ignition and can ignite.

INCOMPATIBILITIES: Strong alkali, acids, oxidizing agents, nitrates, amines, carboxylic acids and water. Reactions to amines, alcohols, acids and alkali are exothermic. Reactions to water can lead to increased pressure in closed containers with risk of bursting.

CONDITIONS TO AVOID: Heat, flames, ignition sources, moisture / water and incompatible. Heat can cause cans to rupture.

FLAMMABILITY: Product is flammable.

Containers should be kept cool with water spray to prevent pressure build up.

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