

### PRODUCT DESCRIPTION

Duram Bituflex is a water-based latex/bituminous waterproofing membrane incorporating elastomers and reinforcing agents. It is formulated to a brushable consistency, but with sufficient body to provide a high build waterproofing membrane. Duram Bituflex is designed as a highly economical general-purpose waterproofing membrane for many non-exposed or non-critical applications.

### USAGE/PURPOSE

- Podiums
- Retaining walls
- Planters and landscaped areas
- Structural slabs
- Bituflex can be applied to damp surfaces although freedom from surface water and continual dampness is essential. The product will not cure if the surface remains damp. The drying process takes longer if applied to a damp surface rather than having allowed the surface to dry before applying the product.

### FEATURES & BENEFITS

- Bituflex is user friendly and non-hazardous.
- It will not re-emulsify after a full cure.
- Has excellent adhesion.
- Semi flexible.
- Economical.

### PACKAGING

15 Lt pails. 15 Litre of equates to 16kg.

### COLOUR

Black.

### SHELF LIFE

12 months in unopened container, best used within that period.

### STORAGE

Keep product in a cool, dry place away from heat and do not allow the product to freeze. Product is not flammable.

### TYPICAL PHYSICAL PROPERTIES

PROPERTY	TYPICAL VALUES
Solids	50% to 55%
Application Surface Temperature Range	10°C to 35°C Substrate Surface Temperature

### LIMITATIONS

- Bituflex is designed for short to medium term waterproofing protection. If a long-term solution is required then products such as Durabit EF, Multithane, Cristoflex, and Duram 195 should be considered.
- Bituflex is not designed for exposure to the sun.
- Bituflex will not become waterproof until it has fully dried and cured. Protect product from rain until it has fully cured.
- Bituflex is not compatible with acid-based sealants. Ideally, Bituflex should be coated with Duram Primeseal MC before applying sealant to it (neutral cure sealants are preferred).
- Bituflex is not a trafficable membrane.



### COVERAGE/YIELD

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

Minimum 1.7L/m<sup>2</sup>, i.e. 0.85L/m<sup>2</sup> per coat. A 15 Lt pail will cover 18m<sup>2</sup> for 1 coat at 0.5mm DFT.

### SUITABLE SURFACES

- Concrete
- Cement and Cement Render
- FC, CFC, Asbestos and Blue Board Sheeting
- Block and Brick Work
- Masonry/Stone
- Particle Board (See notes below)\*
- Bitumen (when primed with Duram Primeseal MC)
- Timber, Plywood (when primed with Duram Primeseal MC)

\*Note: Particle Board is not regarded as a suitable substrate for wet areas and particularly shower recesses and should be replaced with CFC sheeting. As a minimum, Particle Board should be sealed with one to two coats of Duram Primeseal MC. All joins and corners must be sealed with a polyurethane sealant and a reinforced fabric used in conjunction with the membrane. Surfaces must be made good and should be sound, stable, dry, clean and free of dirt, dust and contaminants and suitably primed.

### 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 Hybrid sealant or alternatively a non-shrink mortar, finished flush with the surface. Please allow the product to cure and dry.

### PRIMING

- Surfaces should be primed with Duram Primeseal MC applied at no less than 1 Lt per 4m<sup>2</sup> or Duram WB Primer applied at 1Lt per 5m<sup>2</sup> and allowed to dry. Primers need to be applied at no less than the relevant Duram Primer TDS.
- Bituflex is known for its ability to self-prime.
- If there is a risk of entrapped moisture in the substrate which may cause the membrane to bubble or outgas, two coats of Primeseal MC should be applied.



- ❑ Excessively porous, friable and dusty surfaces may require an additional priming coat.
- ❑ Allow primers to touch dry before applying the membrane and refer to the TDS of the relevant primer.

### DETAILING PREPARATION

Corners: Prime as required.

#### General

- ❑ Apply Duram Resiflex Hybrid or Resiflex FC (a flexible polyurethane sealant) and tool off to form a solid covered 45° fillet extending 10mm on to the adjacent surfaces. Please allow product to cure then apply the Duram membrane directly over the sealant and on the adjacent surfaces.

For Additional waterproofing protection or for expansion joint requirements, these additional steps may be taken.

- ❑ Lay a strip of Duram Leak-Seal Tape (a self-stick, butyl mastic waterproofing membrane with a polyester backed reinforcing fabric) over the cured polyurethane sealant, pressing it firmly onto the surface.
- ❑ Apply the Duram membrane directly over the tape and on the adjacent surfaces.

#### Large or Live Cracks

- ❑ Large cracks should be routed out to form a 'V' and then filled and sealed with Duram Resiflex Hybrid, as per the TDS. The sealant should be finished slightly proud of the surface and should be allowed to cure.
- ❑ After priming, as required, lay a strip of Duram Leak-Seal Tape over the joint or crack pressing it firmly on to the substrate. Apply Bituflex directly to the Duram Leak-Seal Tape and extend it at least 75mm on to the adjacent surfaces.

#### Joints - Particularly in CFC Sheeting and Timber sheeting

- ❑ The sheets should be fully coated with Duram Resiflex Hybrid. Butter the edges of each sheet prior to butting the sheets together.
- ❑ Alternatively, the joints should be suitably filled and sealed with Duram Resiflex Hybrid then finished slightly proud of the surface and allowed to cure.
- ❑ After priming, lay a strip of Duram Leak-Seal Tape over the joint, pressing it firmly on to the substrate. Apply Azcoflex TR directly to the Duram Leak-Seal Tape extending at least 75mm on to the adjacent surfaces. If the Duram Leak-Seal is not used, then follow the procedure as described under 'Large or Live Cracks'.

#### Waste Outlets, Penetrations and Angles

- ❑ Waste Outlets: Floor wastes and puddle flanges should be rebated into the floor to allow water to readily drain. Fill all gaps and perimeters with Duram Resiflex Hybrid.
- ❑ Plastic or metal angles: Where required by the Building Code including exterior door barriers and plastic corner angles, or water stops they should be securely embedded in Duram Resiflex Hybrid.

\*Note: Allow Plastic floor waste, puddle flanges, plumbing and water stop angles can be primed with Duram Superprime 711.

\*Note: Some retrofitted flanges may not require priming, seek Duram technical assistance for guidance.

### APPLICATION

- ❑ Stir well, then apply Bituflex by brush, roller, broom, or squeegee in a minimum of two coats (usually a day apart so that the dry film thickness is 1.0mm DFT). The minimum wet coat thickness per coat is 0.85mm. The second coat is best applied within 36 hours to achieve inter-coat adhesion bonding and to also avoid the need to reprime.
- ❑ Bituflex can be used fully reinforced using Durascrim (polyester fabric).

- ❑ Please ensure that the fabric is free of bubbles and wrinkles and is fully saturated and covered.

### CURING

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

Expected curing at 25°C at 50% RH:

- ❑ Touch dry: 2 to 4 hours per coat
- ❑ Set: 12 hours
- ❑ Full cure: 24 hours per coat.

Please ensure membrane is fully cured before tiling or topping.

### CLEAN UP

Avoid spills. Wet spills can be cleaned with water. Spills are difficult to clean particularly on porous surfaces. On concrete and non-porous surfaces for wet spills use a cloth and water. 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 water.

### 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

Risk is considered low if the product is used correctly as instructed. Please use the product in well ventilated areas. Do not apply in areas exposed to the weather or where rain is imminent.

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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