



BITUFLEX

RUBBERISED BITUMINOUS WATERPROOF MEMBRANE

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.

Bituflex is user friendly and non-hazardous. It is black in colour. **Bituflex** will not re-emulsify after full cure.

Duram Bituflex is designed as a highly economical general-purpose waterproofing membrane for many non-exposed or non-critical applications.

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

USES

SUITABLE SURFACES

Duram Bituflex is suitable on most commonly used construction substrates including - Concrete cement, cement render, FC sheeting and compressed sheeting, block work and brick.

Bituflex can be applied to damp surfaces but freedom from surface water and continual dampness is essential. The product will not cure if surface remains damp. The drying process takes longer if applied to a damp surface than having allowed the surface to dry before applying the product.

- Podiums
- Retaining walls
- Planters and landscaped areas
- Structural slabs

- Concrete
- Cement and cement render
- FC and CFC Sheeting
- Block & Brick work
- Masonry/Stone
- FC, CFC, asbestos and Blue board sheeting
- Particle board (see notes below) *
- Bitumen (when primed with **Duram Primeseal MC**)
- Timber, Particle Board, Plywood (when primed with **Duram Primeseal MC**)

Advice from Duram should be sort for the most appropriate priming method for these surfaces; Duram has a recommended system for all the above.

***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 joints 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.

BENEFITS AND ADVANTAGES

- Economical.
- Easy to apply.
- Has excellent adhesion.
- Semi flexible.

ADDITIONAL USES

Damp Proofing applications.

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.

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**, **Crystoflex**, 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 from rain until it has 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.

PRECAUTIONS IN USE

Risk is considered low when used correctly. Precautions on the pail label and SDS should be observed. Use in well ventilated areas. Do not apply in areas exposed to the weather if rain is imminent.

SURFACE PREPARATION

Good preparation is essential. Surfaces must be sound, stable, 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. Allow to cure and dry.

PRIMING

Surfaces should be primed with **Duram Primeseal MC** applied at no less than 1 Lt per 4m² or **Duram WB Primer** applied at 1Lt per 5m² 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** and tool off to form a solid covered 45° fillet extending 10mm on to the adjacent surfaces. Allow to cure. Apply the Duram membrane directly over the sealant and on the adjacent surfaces.

For Additional waterproofing protection or expansion joint requirements the following additional steps may be taken.

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

Joints, gaps, and Cracks

General

Joints, gaps and cracks should be filled and sealed with **Duram Resiflex Hybrid** and allowed to cure.

Recommendation: The movement of small cracks should not be underestimated and must be covered with a flexible polyurethane sealant and an additional coat of **Bituflex**.

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 allowed to cure.

After priming, 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 extending 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** and 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 **Bituflex** 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: 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

Waterproofing Applications:

Stir well. 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 avoid the need to reprime.

Bituflex can be used fully reinforced using **Durascrim** (polyester fabric). Ensure that the fabric is free of bubbles and wrinkles and is fully saturated and covered.

COVERAGE

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

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

Minimum 1.7L/m², i.e. 0.85L/m² per coat. A 15 Lt pail will cover 18 m² for 1 coat at 0.5mm DFT.

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.

Duram Bituflex is a fast-drying water based product.

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.

Ensure membrane is fully cured before tiling or topping.

COLOURS

Dries black.

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.

STORAGE AND PACKAGING

Keep in cool, dry place away from heat, do not allow to freeze. Product is not flammable Available in 4 Lt and 15 Lt Pails. 15 litres equates to 16 kg.

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

SAFETY AND PRECAUTIONS

Duram Bituflex is user friendly and safe to use if used as intended.

Bituflex is water based. Wear appropriate PPE during use. The use of gloves and goggles (against splashes) are recommended. If spraying, which is very rare, the use of a mask 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, remove person to fresh air and seek medical attention. Ensure adequate ventilation.

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

TESTS AND TECHNICAL DATA INFORMATION TO BE UPDATED

Solids	50% to 55%
Application Surface Temperature Range	10 ⁰ C to 35 ⁰ C Substrate Surface Temperature

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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