



AZCOFLEX TR

POLYURETHANE FORTIFIED WATER BASED WATERPROOFING MEMBRANE

DESCRIPTION

Duram Azcoflex TR is a water-based Polyurethane Dispersion Fortified Acrylic Hybrid. It is flexible, high performance, UV resistant liquid applied waterproofing membrane formulated for use in demanding exposed, under tile, underground and immersed waterproofing applications.

Azcoflex TR meets the criteria of:

- AS4654.1 2012 Waterproofing membranes for external above ground use.
- AS4654.2 2012 Exterior Resistance to ultraviolet Appendix A.
- The 'Green Star' environmental criteria.

Azcoflex TR is an elastomeric, environmentally friendly membrane designed for both internal and exposed external applications. It cures to form a durable, odourless, impervious, seamless membrane that when fully cured does not re-emulsify even if immersed in water. Does not stain grout or tiles.

The product exhibits chemical resistance and has been formulated to inhibit biological growth.

The Duram Azco Range has been an industry leader for over 20 years in the Acrylic Hybrid waterproofing technologies.

USES

SUITABLE SURFACES

Azcoflex TR has been formulated for most waterproofing applications requiring long term UV exposed waterproofing applications making it ideal for:

- Terraces
- Decks
- Podiums
- Roofs (UV- exposed)
- Structural slabs
- Pits and bunded areas
- Door flashings
- Concrete
- Cement and cement render
- FC and CFC Sheeting
- Block & Brick work
- Masonry/Stone
- FC, CFC, asbestos and Blue board sheeting
- Seyon & composite sheeting
- Acrylic coatings
- Vitreous, ceramic & terra cotta tiles
- Bitumen (when primed with **Duram Primeseal MC**)
- Timber, Particle Board, Plywood (when primed with **Duram Primeseal MC**) *
- Extruded foam

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

Azcoflex TR is a feature packed Polyurethane Dispersion Fortified Acrylic Hybrid waterproofing membrane.

- Single pack (no mixing) easy to apply anti-sag technology.
- Rapid cure
- Not a hazardous product and not flammable. Water based.
- UV resistant
- Low VOC levels. Meets the 'Green Star' environmental criteria.
- Permanently flexible
- Self-leveling 100% bonded seamless membrane (no joints or laps)
- Suitable for immersion in water
- Suitable for permanent immersion and the most demanding waterproofing applications:
 - Overcoat with **Virotoff** for trafficable areas extended UV protection.
 - Can be installed in accordance with AS3740-2010 wet area and AS4654.2 exterior, in exposed membrane applications.
 - Safe to use.
 - Does not re-emulsify once fully cured, long term performance.
 - Can be rendered with polymer render and standard render (with bonding additive).
- Excellent chemical & positive hydrostatic resistance.
- Tough, Durable, and flexible
- High strength and puncture resistant
- Easily repaired and or maintained
- Easy to apply
- Odourless when cured
- Suitable to use in confined spaces.
- Formulated to provide long term protection
- Inhibits mould and biological growth
- Australian Made and a long history of Australian use

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

- Azcoflex TR is not designed as a trafficable membrane although infrequent maintenance foot-traffic is acceptable during the construction phase.
- Azcoflex TR is not suitable for direct contact with high concentrations of chlorine.
- Azcoflex TR cannot be applied directly to wet surfaces, this will cause gassing and bubbling of the membrane.
- Azcoflex TR can be applied to slightly damp surfaces. The surface must be free from surface water and prolonged surface dampness.
- Duram Azcoflex TR is not designed as a trafficable membrane although, infrequent maintenance foot-traffic is acceptable. A protective coat of Duram **Virotoff** is recommended in trafficable areas e.g., terraces, balconies, barbecue areas etc.

PRECAUTIONS IN USE

Risk is considered low when used correctly. Precautions on the pail label and safety data sheets should be observed. Use in well ventilated areas.

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** or **Resiflex FC** 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.

If there is a risk of entrapped moisture in the substrate which may cause the membrane to bubble or outgas, two coats of **Duram Primeseal MC** should be applied.

Excessively porous, friable, and dusty surfaces may require an additional priming coat.

Metal surfaces must be clean and free of contaminants.

Raw steel or galvanized metals apply **Duram ME Primer**. If rusted, treat to remove rust, apply a rust converter, and then apply **Duram ME Primer**.

Other Duram primers suitable for use with Azcothane include **Duram Primeseal SP** and **Superprime 711**.

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. 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** or **Resiflex FC** 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 Azcoflex TR.

Large or Live Cracks

Large cracks should be routed out to form a 'V' and then filled and sealed with **Duram Resiflex Hybrid** or **Resiflex FC** joint sealant, as per the TDS. The sealant should be finished slightly proud of the surface and 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 Azcothane 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** or **Resiflex FC**. 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** or **Resiflex FC** 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 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 FC**.

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 Resiflex FC**.

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

Azcoflex TR is a tradesman's favourite Acrylic Hybrid waterproofing membrane for over 20 years.

Waterproofing Applications:

Stir well. Apply Azcoflex TR by brush, roller, broom, or squeegee in a minimum of two coats, usually a day apart so that the minimum 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.

Reinforced System:

In areas such as corners and over joints and cracks the membrane should be used in conjunction with **Duram Durascrim matting**, a reinforcing polyester fabric. This application consists of applying a base coat in to which the reinforcing fabric is laid followed by the application of a saturating coat ensuring that the Azcoflex TR is worked well in to the fabric and that no wrinkles or bubbles are present and that fabric is entirely saturated and covered with Azcoflex TR. Allow to cure. Apply two further coats of Azcoflex TR.

Single Coat Application:

In ideal conditions - Warm, dry weather, the membrane may be applied in a single coat after correct priming and at prescribed coverage rate and dry film thickness as for 2 coats. The membrane should be monitored to ensure bubbling, pin holing or damage does not occur. If this occurs, the wet membrane should be lightly over-rolled.

COVERAGE

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

Duram Azcoflex TR

Unreinforced: 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 Azcoflex TR 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.

Generally, Azcoflex TR is touch- dry within 2 to 4 hours generally with full cure after 24 hours. Recoat between 4-24 hours.

TILING, TOPPING OR TOP COATING

Duram Azcoflex TR is compatible with most tile adhesives and 3:1 sand: cement beds.

Ideally the beds should be sealed / waterproofed to prevent the bed absorbing and holding water. Selection of the tile adhesive should be compatible with the flexibility of the substrate. Tiling must be done in accordance with AS3958.1- 2007 with adequate expansion joints installed.

Azcoflex TR can withstand maintenance traffic. For any greater exposure to traffic, **Virotuff** should be applied over the Azcoflex TR for protection.

Azcoflex TR is usually covered.

For Tiling – topped with a bedding of sand /cement screed. Acrylic bonding agents can be used in conjunction with sand/cement screed mixes for better strength and adhesion properties. When tiling, it is essential that adequate expansion joints are installed in accordance with good tiling practice, AS3958.1- 2007

Covered Roofs – cover with protection sheeting, Geo Textile (drainage cell) pebbles.

COLOURS

Duram Azcoflex TR is available in White.

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

CLEAN UP

Avoid spills. Wet spills can be cleaned with water. They 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 Azcoflex TR is user friendly and safe to use as intended.

Azcoflex TR 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. If inhaled, remove person to fresh air and seek medical attention. Ensure adequate ventilation.

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

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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