

Product Data Sheet

Azcoflex WPR

Water Ponding Resistant Acrylic Waterproofing Membrane

Description

Azcoflex WPR (Water Ponding Resistant), high build, water based, tintable, acrylic waterproofing membrane primarily designed for waterproofing exposed areas. Azcoflex WPR is UV resistant, durable but elastomeric. When cured it gives a seamless waterproofing membrane with excellent water ponding resistance, low dirt pick-up and good thermal shock stability.

Azcoflex WPR is suitable for both horizontal areas and walls and is waterproof barrier for severe weather conditions, wind driven rain, salt spray and UV exposure.

Azcoflex WPR can be used with or without a reinforcing fabric.

Uses

Azcoflex WPR is designed to provide a non-trafficable waterproofing membrane for the use on:

- Roofs, decks, terraces, podiums and balconies.
- Walls, parapets and facades.

Note: Duram Virotoff can be applied to the cured Azcoflex WPR membrane to provide an anti-slip protective coating.

Suitable Surfaces

Azcoflex WPR can be used over a wide range of properly prepared and primed substrates including:

- Concrete, cement, cement render, block work, brick, masonry, FC and CFC sheeting and timber.
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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.

Benefits and Advantages

- Azcoflex WPR is a waterproofing membrane for both horizontal and vertical surfaces.
- Water-based.
- User and environmentally friendly.
- Can be tinted.
- UV Resistant, suitable for exposed areas.
- Water ponding resistant.
- Low dirt pick-up - can be cleaned.
- Can be readily repaired or over-coated, if required.
- Can be used with or without a reinforcing fabric.

Precautions in Use

Product is considered low risk if used properly as intended. Whilst Azcoflex WPR is a user friendly product it is recommended that all safety precautions are followed as per product label and data sheet. In exposed areas, do not apply if rain is imminent and protect membrane from rain and inclement weather until fully cured.

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.

Priming

Surfaces should be suitably primed with Duram Primeseal applied at no less than 1 litre per 4m² and allowed to dry. Duram Primeseal must be used for roof and exposed horizontal areas, timber and particle board surfaces, bitumen or where there is a risk of entrapped moisture in the substrate which may cause the membrane to bubble. Alternative primers such as Azcoseal or Maxiprime may be used in non-exposed areas and where the moisture content of the surface is very low applied at no less than 1 litre per 4m². Excessively porous, friable and dusty surfaces may require an additional priming coat. Please refer to the product data sheets of the stated primers.

Detailing Preparation

Corners

Prime as required.

Apply an adequate flexible polyurethane sealant, in accordance the manufacture's instruction and tool off to form a solid, coved or 45° fillet extending at least 10mm on to the adjacent surfaces. Apply the Duram membrane directly over the sealant and on the adjacent surfaces.

For Additional waterproofing protection the following additional steps should be taken

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

Joins, gaps and Cracks

General

Joins, gaps and cracks should be suitably filled and sealed with an appropriate elastomeric sealant, preferably a polyurethane sealant, and allowed to cure.

Recommendation: The movement of small cracks should not be underestimated and should be at least covered with a flexible polyurethane sealant or additional coats of membrane.

Large or Live Cracks

Large cracks should be routed out to form a 'V' and then filled and sealed with a polyurethane waterproof joint sealant as per the manufacturer's instructions. 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 join or crack pressing it firmly on to the substrate. The Duram membrane is then applied directly to the Duram Leak-Seal Tape and extending at least 75mm on to the adjacent surfaces.

If the Duram Leak-Seal is not used then a suitable bond breaker tape (such as duct tape) at least 48mm wide should be laid over the join or crack and apply a fully reinforced Duram membrane consisting of a base coat of Azcoflex TR membrane in to which the reinforcing fabric is embedded, a saturating coat of the Duram membrane ensuring that the fabric is entirely saturated and covered and then allowed to cure. At least one or two further coats are applied as per the Duram membrane's Product Data Sheet extending at least 75mm on to the adjacent surfaces.

Joins - Particularly in CFC Sheeting and Timber Sheeting

Ideally the sides of the sheets should be fully coated with a flexible polyurethane waterproof joint sealant prior to butting the sheets together.

If not, the joins should be suitably filled and sealed with an appropriate elastomeric polyurethane waterproof sealant and finished flush with or preferably slightly proud of the surface and allowed to cure.

After priming, as required, lay a strip of Duram Leak-Seal Tape over the join, pressing it firmly on to the substrate. The Duram membrane is then applied as described under 'Large or Live Cracks'.

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 in to the floor to allow water to readily drain and its perimeter edges and gaps sealed with apolyurethane sealant.

Plastic or metal angles: Where required by the Building Code such as internal hobs and exterior door barriers and also plastic corner angels under wall boards, should be securely embedded in to a continuous, gap free bed of a polyurethane sealant / mastic.

Application

Application can be with brush, spray or roller. Where exposed to the elements, do not apply membrane if rain is imminent and protect the membrane from water and damage until it has fully cured. Azcoflex WPR can be reinforced (preferred for horizontal applications) or non-reinforced.

REINFORCED MEMBRANE APPLICATION

Floor System:

1st & Saturating Coat (done in one step).

Apply a first coat of Azcoflex WPR using brush,roller or spray over the prepared and primed surface at the rate of 0.5 litre sq.m. Embed fibreglass matting or Durascrim reinforcing fabric into the wet membrane. The reinforcing must be well worked into the wet membrane to eliminate trapped air and wrinkles. Immediately apply a saturating coat at the

rate of 0.5 litres per sq.m. ensuring the the fabric is entirely embedded and covered. Allow to cure. Inspect the cured surface and cut out and replace any trapped air bubbles before proceeding. The surface should be smooth with a regular profile from the embedded reinforcing and free of bubbles, wrinkles or surface defects. Allow to dry.

2nd Coat.

Apply a second coat of Azcoflex WPR by brush, roller or spray at the rate of 1.0 litres per sq.m. Allow to cure.

3rd Coat.

There are occasions when the use of a third application might be considered necessary. Typically this should be considered in coastal/marine environments. Application will be at the rate of 0.5 litre sq.m.

The minimum dry film thickness of the membrane should be at least 1.5mm.

UNREINFORCED MEMBRANE APPLICATION

Apply at least 2 coats at the minimum rate of 0.8 litres per m² per coat or 1.6 litres per m² combined. In critical or demanding areas an additional coat may be required.

Wall System:

Apply two coats of Azcoflex WPR at the rate of 2m² to 3 m² per litre per coat. The minimum dry film thickness should be at least 500 microns. The crack bridging properties of the coating is dependent upon the cured thickness (the thicker the membrane the more it will flex) and additional coats may be required over doubtful areas.

Coverage

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

Reinforced: The total combined use of Azcoflex WPR should be a minimum of 2 litres per m².

Unreinforced: The total combined use of Azcoflex WPR should be at least 1.6 litres per m²

Walls: The total combined use of Azcoflex WPR should be at least 1.0 litres per m².

Colours

Azcoflex WPR can be tinted to a wide variety of colours.

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.

At 25°C and 50% RH (per coat):

Touch dry: 2 to 6 hours.

Dry: 6 to 12 hours.

Full cure: 24 to 36 hours.

Service Temperature: 10°C to 50°C

Application Temperature: 10°C to 30°C

Storage

Azcoflex WPR should be stored in a cool dry place. Keep out of the reach of children. Do not allow the product to freeze. Suitable containers: Plastic pails as recommended by the manufacturer.

Clean Up

All tools and equipment should be cleaned in water as soon after completion as practical.

Tiling, Topping or Top Coating

Usually the product is left exposed.

Safety & Precautions

Azcoflex WPR is a user friendly and safe to use if used correctly as intended. The use of rubber gloves and eye protection is recommended. Observe the safety precautions on the pail, data sheet and Material safety Data Sheet.

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

Tests and Technical Data

Shelf Life: Up to 12 months in unopened containers and 6 months after resealing open pails. The above data is based on 25°C and 50% RH. Performance and shelf life can vary when stored in extreme conditions. Azcoflex WPR is available in 4 and 15 litre pails.

Application Temperature 10°C to 35°C
Service Temperature 5°C to 50°C

Conditions of Use and Disclaimer

The information contained in this data sheet is given in good faith based upon our knowledge and current information and does not imply warranty. The information is provided and the product sold on the basis that the product is used for its intended use and applied in a proper workman like manner in accordance with the instruction in this data sheet onto suitable and correctly prepared surfaces which shall remain sound, stable, free of structural defects, cracking, spalling concrete cancer, negative pressure, movement or other conditions that may effect the performance of the product. Deviations from application instructions may diminish or negate the performance of the product. Under no circumstances will the Company be liable for any loss, consequential or otherwise, arising from the use of the product. Liability is limited to the replacement of proven faulty product.

Not classified as hazardous according to the criteria of Worksafe Australia.

Identification

Product Name: Azcoflex WPR
Other Names: Duram Azcoflex WPR.
U.N. Number: N/A
Class: N/A
Hazchem: N/A
Code:
Poison: N/A
Schedule:
Pack Sizes: 4ltr & 20ltr pails.

Physical Description

Appearance: Whitish viscous liquid coating.
Boiling Point: Not known but approximates water.
Vapour Pressure: N/A
Percent Volatiles: N/A
Specific Gravity: +-1.2
Flash Point: Not Flammable.
Flammability: N/A
Water Solubility: Resin component +40 is insoluable.

Ingredients

Chemical	CAS No.	Proportion
Copolymer	Proprietary.	40-60%
Water	7732-18-5	20-30%
Fillers Pigments & unspecified minor ingredients.	N/A	40-60%

Uses:

Azcoflex WPR (Water Ponding Resistance) is formulated as a decorative, high build, elastomeric roof waterproofing membrane to provide long term resistance to ponded water and UV exposure.

Health Warning Information

Health Effects

Swallowed: Single oral dose adverse effects not expected. May cause nausea and vomiting.

Eyes: Avoid eye contact. Mild to moderate irritation.

Skin: Unlikely because of viscous nature of the product. Inhalation over - exposure not anticipated but may cause irritation. Chronic effects not known.

First Aid

Swallowed: Do not induce vomiting. Give plenty of water to drink and seek immediate medical attention.

Eyes: Immediately flush eye with clean water holding lid open to ensure any trapped product may be flushed, and seek medical attention.

Skin: Remove contaminated clothing, wash with soap and water. Do not use solvents to remove material.

Inhaled: Remove person to fresh air. Seek immediate medical attention.

Advice to Doctor

Treat Symptomatically.

Precautions in Use

Toxicity data includes that the product is not harmful to health provided the product is used correctly. No LD50 tests are available.

Exposure Limits

Exposure limits are not established.

Ventilation

Good ventilation is required.

Personal Protection

The use of rubber gloves, safety boots and goggles (against splashes) is recommended.

Safe Handling Information**Storage and Transport**

Store in a cool dry area in sealed containers. Not classified as dangerous goods.

Suitable containers: Plastic pails as recommended by manufacturer.

Check containers are labeled and leak free.

Spills and Disposal

Soak up spill with absorbent material such as sand and collect in suitable containers. Prevent product from reaching drains. Dispose in accordance with

accredited waste disposal authorities by incineration or landfill.

Fire / Explosion Hazard

Product should not decompose explosively. Extinguishing media is water, CO₂, foam or dry powder.