



AQUASEAL LIQUID RUBBER

Single Component High
Elongation Water Proof Coating

Aquaseal Liquid Rubber by Unishield Pro is a premium, single-component waterproofing solution. It is scientifically formulated with synthetic resins, selected minerals, and fillers, based on waterborne polyurethane technology. This product provides an elastic, flexible, and impermeable membrane ideal for protective and waterproofing applications. Its durable formulation ensures excellent crack-bridging capabilities and long-lasting performance.

Applications

- **Waterproof Coating:** Concrete and brick foundations, retaining walls, podiums, and similar structures.
- **Damp-Proofing:** Ideal for regular concrete and masonry surfaces.
- **General Waterproofing:** For surfaces such as concrete, asbestos, and timber.
- **Structural Protection:** Safeguards concrete columns, beams, and other structural components.

Technical Characteristics (At 30°C, 60% RH)

Property	Values	Test Standards
Color	Black	-
Consistency	Thixotropic Paste	-
Density	1.00 ± 0.05 g/ml	ASTM D 1475
Solid Content	56 ± 5%	ASTM D 1644
Viscosity	40,000-50,000 cPs	ASTM D 2196
Bonding Strength	0.68 N/mm ²	ASTM C 882
Tear Resistance	18.60 N/mm (with fiber)	ASTM D 624
	12.69 N/mm (without fiber)	
Tensile Strength	2.10 N/mm ² (with fiber)	ASTM D 2370
	1.82 N/mm ² (without fiber)	
Puncture Resistance	22.00 N (with fiber)	ASTM D 624
	18.20 N (without fiber)	
Shore Hardness (Shore A)	45 A (with fiber)	ASTM D 1415
	32 A (without fiber)	
Elongation at Break	700%	ASTM D 412
Crack Bridging Ability	≤2 mm	ASTM C 836
Permeability	NIL	IS: 2645-1975
Set to Touch Time	10-12 hours	-
Full Cure	>24 hours	-
Service Temperature	5°C to 120°C	-

Advantages



- 1. Easy Application:** Cold-applied directly, no preheating required.
- 2. Seamless Coating:** Forms a joint-free, impervious waterproofing layer.
- 3. Chemical Resistance:** Protects structures against chloride and sulfate ions in soils and water.
- 4. Eco-Friendly:** Water-based, non-toxic formulation suitable for various environments.
- 5. Versatile:** Adheres to multiple substrates, including concrete, masonry, timber, and metals.



Coverage

Minimum recommended coverage: 1.5 kg/m² in 2 coats to achieve 700-800 microns DFT. Apply two coats at 750 grams/m²/coat. Coverage depends on surface porosity and application method. Site trials are strongly recommended.

Application Process



- 1. Surface Preparation:** Ensure the surface is clean, dry, and free of dust, grease, or loose particles. Treat cracks with a suitable filler or Polymer-Modified Mortar (PMM).
- 2. Priming:** Dilute Aquaseal Liquid Rubber with water (1:1 ratio) and apply as a primer coat.
- 3. Main Coating:** Apply two coats using a brush, roller, or spray. Embed glass fiber reinforcement into the first coat while still wet for enhanced durability.
- 4. Curing:** Allow the first coat to dry completely before applying the second coat.



Packaging

Available in 20 kg container.

Storage and Shelf Life

Store in a cool, dry place away from direct sunlight. Shelf life: 12 months if stored below 25°C in unopened packaging under recommended conditions.

Safety Precautions

1. Use gloves and goggles during application.
2. Avoid contact with skin and eyes; rinse with fresh water immediately if contact occurs.
3. In case of ingestion, seek medical attention immediately.
4. For professional use only. Keep out of reach of children.

