



Jubiguard

AUQASHIELD FLEX

**HIGH PERFORMANCE FLEXIBLE ACRYLIC,
TWO-COMPONENT CEMENTITIOUS WATERPROOFING COATING**

JUBIGUARD AQUASHIELD FLEX is a high-performance, two-part acrylic polymer-modified cementitious waterproofing coating. It's for use on terraces, basements, retaining walls, wet areas, and water features. This liquid coating forms a tough barrier against water, cures to a flexible finish, and resists hydrostatic pressure.



Application Areas

Waterproofing applications for various structures such as:

- Raw Water Concrete Tanks, Reservoirs, Waste Water tanks
- Flat roofs, Terraces, Balconies, Sunshades, Lift Pits, Sump Basement and Retaining walls, Swimming pools, Fountains, Water Bodies, Canals RCC Gutters, Drains and Planter Boxes, Sealing Internal Basement Walls against Dampness etc.
- Wet areas like Toilets, Kitchen, Utility, Sunk Slabs
- Interior and exterior waterproofing and damp-proofing of concrete, cementitious rendering, brickwork and blockwork
- Protection of concrete structures against the effects of de-icing salts and freeze-thaw attack
- Pore / blowhole filling
- Sealing fine static cracks in concrete structures not subject to movement

It is also used as an anti-carbonation protective coating to exposed concrete structures like Flyovers bridges, Viaducts etc.



Technical Details

Properties	Values	Test Standards
Colour	Grey	
Mixed density	1.7 g/ml \pm 0.05	ASTM D 1475
Pot life @25°C	45 minutes	
Elongation at Break	>120%	ASTM D 412
Crack Bridging	No cracking upto 2 mm	
DFT	1- 2 mm	
Tensile Strength	\geq 1 N/mm ²	ASTM D 412
Compressive Strength	> 40 Mpa	ASTM C 39
Adhesion Strength	>0.65 N/mm ²	
Mixing ratio - Part Polymer : Part Powder	1 : 2 (by weight)	
Water Potability	Non-toxic	BS 6920
Abrasion resistance	<75gm	ASTM D 4060
Adhesion to concrete	>0.65 N/mm ²	ASTM D 4541
Initial Cure @25°C	6-8 hours	
Full Cure @25°C	7 days	
Application Temperature	5°C to 45°C	
Service Temperature	-5°C to 70°C	
Shelf Life	12 Months	



Pack Sizes

3 kg, 15 kg & 60 kg



Features



Excellent Waterproofing

Resists up to 5 bars of positive hydrostatic pressure.



Anti-Efflorescence

Provides lasting protection against efflorescence.



High Elongation

Highly elastic film which provides elongation >120%



Good Adhesion

Excellent bond strength with cementitious substrates



Anti-Carbonation

Resistant to the ingress of carbon dioxide and chloride ion.



Non-Toxic

Can be used in potable water applications



Crack Bridging Ability

No cracking upto 2 mm



Abrasion Resistance

Good abrasion resistance of coating.



Chloride Protection

Protects concrete from chloride penetration



Easy to apply

Forms a seamless coat without any joints

- The thermal co-efficient of expansion is like concrete.
- Allows the substrate to breathe.



Coverage

- 1.75-2.25 kg/m² to attain a DFT of 1 mm in 2 coats.
- 3-3.5 kg/m² to attain a DFT of 2 mm in 2 coats.

Substrate should be in SSD condition and pre-wetted before application.

Coverage depends on the porosity of the surface and the method of application. The coverages mentioned are theoretical and based on test conditions. It is strongly recommended to conduct a site trial before mass application to ensure optimal results.



Shelf life



Best before 12 months

in sealed pack under proper storage.

- Failure to comply with the recommended storage conditioning may result in premature deterioration of the product or packaging.



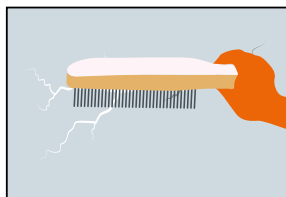
Health & Safety

- JUBIGUARD AQUASHIELD FLEX is safe, non-toxic, and eco-friendly and presents no health hazard. As with all chemicals, caution should always be exercised.
- Use protective clothing such as rubber hand gloves & safety goggles, while using JUBIGUARD AQUASHIELD FLEX.
- In case of contact with skin, wash with plenty of water.



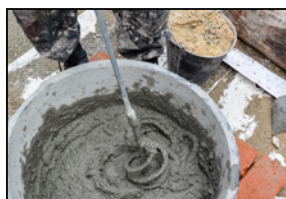
Method of Application

Surface Preparation



Prepare the surface by removing loose particles, laitance, and degreasing oil and grease. Fill cracks with cement-sand mortar mixed with latex polymers. Apply Polymer Modified Mortar (PMM) with JUBIGUARD CRETESHIELD SBR at junctions and corners. Ensure the substrate is 'Saturated Surface Dry' (SSD) before application.

Mixing



Using a slow-speed mechanical mixer and a clean, suitable mixing vessel, gradually add the powder component to the liquid polymer (provided in pre-weighed, pre-packed, pre-measured parts) and stir until a smooth and homogeneous slurry is achieved. Allow the mixed slurry to stand for 5-10 minutes before use. Do not dilute with water.

Waterproofing



Apply JUBIGUARD AQUASHIELD FLEX in three coats, each perpendicular to the previous one, at intervals of 6-8 hours, achieving a coverage of 3 kg/m². Extend the coating up to the full height of internal RCC walls. While the third coat is still wet and tacky, sprinkle or broadcast coarse sand over the surface to create roughness and provide a mechanical key for plastering.



Precautions & Limitations

- Recommended dosage to be followed to achieve desired results.
- Do not exposed coating to direct sunlight.
- JUBIGUARD AQUASHIELD FLEX does not provide a trafficable finish. In case the roof needs to be made trafficable a screed needs to be laid on the finished system.

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For Feedback/complaints, write to Product Manager, CPD, Jubilant Agri and Consumer Products Limited

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