



AQUAFLEX 100

TECHNICAL DATA SHEET



PRODUCT DESCRIPTION

AQUAFLEX 100 is a premium grade, two component flexible cementitious waterproofing. The two parts, when mixed, yield brushable, smooth slurry with excellent bond to most substrates with an impressive flexibility and adhesion to concrete substrates.



RECOMMENDED APPLICATIONS

- ✓ Positive side waterproofing for old and new structures
- ✓ Waterproofing coatings to the internal faces of elevated water tanks, reservoirs and pipes.
- ✓ Water treatment and sewage structures
- ✓ Swimming pools and fountains
- ✓ Domes and concrete structures



ADVANTAGES

- ✓ Polymer modified – excellent adhesion to all cement-based substrates
- ✓ Proven durability and flexibility amid movements of the medium/substrate
- ✓ Excellent resistance to corrosive environment
- ✓ Can resist substrate micro cracking of up to 3mm
- ✓ Brushable consistency
- ✓ Non-toxic – suitable for use in waterproofing of potable water tanks



PRODUCT INFORMATION

Packaging: 35 kg set
 Appearance/Color: Dark Gray
 Shelf Life: 12 months
 Storage Conditions: Store in a cool, dry place
 Maximum Grain Size: 0.5 mm



TECHNICAL INFORMATION

Adhesion Strength: 0.9 Mpa
 Crack Bridging Capacity: >2mm
 Density: 1.4-1.44 kg/L
 Dry Film Thickness: 1mm
 Elongation: 150%
 Pot Life: 4-5 hr
 Shore A Hardness: 50-60



LIMITATIONS

AQUAFLEX 100 could not be used as an anti-root membrane. A top-coat is also required for external applications as **AQUAFLEX 100** as it is not UV resistant.



ENVIRONMENT

Our facility complies with the proper waste management procedures. Our products are also free of ozone depleting substances.



APPLICATION INSTRUCTION

SURFACE PREPARATION:

Concrete surface to be treated must be clean, dry (up to 1% moisture content) and free of dirt, paint coating and other foreign materials. Structural defects such as cracks, faulty construction joints and honeycombing should be routed out to sound concrete and repair with the design strength appropriate patching mortar. It is recommended that WONDERPLUG or sealant be formed at all corners to receive the waterproofing membrane. Area with water ponding should be repaired or grinded to let water run down to the drainage.

MIXING:

- Pour Part B (liquid) into a clean container
- Slowly add Part A (powder) into the container and mix with a slow speed mechanical mixer until the mixture reaches a homogenous state
- Allow the mix to stand for 5 minutes and re-stir manually before use

APPLICATION:

For horizontal and vertical surfaces, a roller or paint brush may be used to apply the slurry. Care must be taken to ensure that air is not entrapped in the membrane. Apply the first coat and work generously to fill all the pores and honeycombs. Allow the membrane to dry approximately 20-40 mins prior to application of the second coat. The second coating must be applied in a different direction. After applying the second coat of waterproofing membrane, allow a minimum curing time interval of 3 days before laying the screed and commencing ponding test.



COVERAGE

30-32 sqm per 35kg set at 1 coat. Coverage figures are theoretical and due to wastage factors and the nature of possible substrates, practical coverage will be reduced.



HEALTH & SAFETY

A dust mask should be used when handling **AQUAFLEX 100**. Gloves should be worn during application. **AQUAFLEX 100** is non-flammable



QUALITY & DURABILITY ASSURANCE

Our stringent Quality Assurance Procedure for every batch of products manufactured. Our R&D Laboratory based in our production facility ensures that scientific Quality Control Parameters are measured for quality.

Our Quality Control Parameters ensure the stability of our products, ensuring the long-term durability amid exposure to various element and weather conditions.



SUSTAINABILITY

Our company is committed to Carbon Neutrality thru our various programs such as our GHG Emission Reduction Logistics Approach and OPTI Trees Planting Program.