AQUASHIELD-EC

Acrylic-polymer Modified Cementitious Elastomeric Cementitious

Two component cementitious waterproofing made from cementitious binder, selected aggregates, special additives and synthetic polymers in water dispersion.

Key Features

1. Adheres to substrate and gives waterproof layer for the base in presence of upto 1.5 bar of pressure

Applications

1. Waterproofing of internal and external surfaces of masonry
2. Waterproofing for reinforced concrete structures such as swimming pools and lifts

Cautions

1. Do not use for internal condensation
2. Do not use gypsum or plaster boards, painted surfaces, wood, or fiber cement.
3. Do not mix with admixtures, cement, or aggregates
4. Do not use on surfaces subject to deformation

Shelf Life

12 months from date of production if stored properly in original, unopened, and undamaged sealed packaging

Storage Conditions

1. Store dry at 40–95 °F (4–35 °C)
2. Component 'A' must be protected from freezing. If frozen, discard.
3. Component 'B' must be protected from moisture. If damp, discard.
4. Condition material to 60–75 °F before using.

Abrasion Resistance

7 days	55 L/mil
73 °F (23 °C) & 50 % R.H.	

Tensile Adhesion Strength

7 days	concrete substrate failure

Diffusion Resistance to Water Vapor

7 days at 73 °F (23 °C) and 50 % R.H.

1 coat	27 grains/hr/ft2
2 coats	24 grains/hr/ft2

Mixing Ratio

12 months from date of production if stored properly in original, unopened, and undamaged sealed packaging

Layer Thickness

Min.	Max.
8 mils (0.2 mm)	16 mils (0.4 mm)

* Thicker application can result in cracking.

Ambient Air Temperature

> 45 °F (7 °C)

Substrate Temperature

> 45 °F (7 °C)

Pot Life

4 hours

As the temperature will affect the pot life, application temperature:

- Above 73 °F (23 °C) will reduce the pot life and workability
- Below 73 °F (23 °C) will extend the pot life and workability

Final Set Time

30 minutes tack-free time

Waiting / Recoat Times

2 hours minimum between coats

Coverage

1st coat	100–150 ft/gal
2nd coat	150–200 ft/gal

* (Coverage figures do not include allowance for surface profile and porosity or material waste)

Mixing

1. All mixing must be done mechanically using a low-speed drill (400–600 rpm) and Sika paddle.
2. Place approximately 1/2 Component 'A' into a clean mixing container.
3. While mixing, slowly add all of Component 'B' and continue to mix until you achieve a uniform paste with no lumps.
4. Be sure to scrape down sides of the mixing container currently.
5. Add remainder of Component 'A' and continue to mix until uniformly blended.

Application

1. The product should only be applied over properly prepared surfaces with high-quality brushes, rollers, or "hopper-type" spray equipment.
2. Surface should be SSD prior to application.
3. Two coats are recommended for maximum performance.
4. Apply thoroughly mixed coating generously with a loaded brush or roller.
5. Always finish off with light strokes blending back into a coated area for uniform appearance.
6. For application in direct sun or on a hot substrate, pre-wet surface and allow surface water to dissipate before coating.
7. Refer to detailed guidelines when there is a need to place this product in cold & hot temperatures.

Curing Treatment

1. As per ACI recommendations for Portland cement concrete, curing is required.
2. Moist cure with wet burlap and polyethylene, a fine mist of water.
3. Curing compounds adversely affect the adhesion of following lifts of mortar, leveling mortar, or protective coatings.
4. Moist curing should commence immediately after finishing. Protect newly applied Aqua-shield EC from direct sunlight, wind, rain and freezing.