

AQUA-FLEX™

Flexible cement based moisture protection membrane



Technical Data

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Used as a flexible moisture membrane over underlayment flooring systems, exterior exposed and interior concrete or anywhere a breathable crack bridging and moisture barrier is needed.

Description:

Aqua-Flex is a two part, cementitious and Acrylic emulsion system that when mixed together becomes a highly flexible modified mortar with water repellent characteristics. It is useful in many applications such as protection against moisture penetration for many underlayment systems or as an exposed system that supplies a protection barrier from elements. Not affected by marine or direct sun exposure.

This product will isolate and bridge small cracks and withstand traffic use. It can be applied below grade to prevent moisture migration.

Uses:

- Roofs, Overhangs
- Balconies under tiles and flooring
- Decks, and under Flashings
- Fountains and water features
- Water tanks
- Foundations, basements
- Under bathroom tiles
- Parking Structures
- Ponds, Pools
- Slabs on grade and hi-rise
- Walls and windows

Product Composition:

Blended cements and acrylic polymers with proprietary admixtures.

Product Limitations:

Product is designed to bridge gaps and small cracks to 1/16 of an inch maximum, provided coating is mixed as per instructions, intact and at the proper thickness.

Not designed for applications where there is constant movement or fluctuating head pressures. Apply on negative and positive sides below grade when head pressures are anticipated. Do not use as a thin set adhesive.

Applicable Terms:

- ⇒ Concrete & masonry coatings
- ⇒ Flexible protection membranes
- ⇒ Polymer modified moisture barriers
- ⇒ Below overlays moisture protection

Mixing:

All ingredients are included & pre-measured in each kit. Mix thoroughly with drill mixer or

suitable tool to assure blending of all components. Always add powder to the liquid in the pail provided. Wear eye & face protection.

Packaging:

One kit unit includes 50 pounds of powder and an admix container.

Storage and Shelf Life:

In original un-opened package: 6 months, stored in a cool dry place away from heat sources, humidity and direct sun light.

Surface Preparation:

Make sure areas to be applied are clean and absorbent, free from oils and contaminants and any coatings.

Pressure clean surfaces and determine if other industrial cleaners or etching is needed to remove surface laitance.

Allow substrate surfaces to air out to SSD condition prior to installation. If surfaces are dry, moisten by misting with clean potable water. Avoid leaving any surface water by removing with a squeegee or like tool before installation.

Installation:

Mix only enough material that can be used in 30-45 minutes. This product cannot be re-tempered if the application is to be achieved successfully. Mechanically mix powder into liquid in a homogeneous lump free batter like mixture.

Note: Homogeneous mixing is critical.

Convey product by hoisting or pumping mix to the application area and spread by means of using a notched squeegee or hopper gun to recommended thickness.

Other tools such as brushes and rollers can be used to build up coating to the recommended thickness for the intended use.

The following suggestion is a good start point for installations. Is always better to over build than to provide too thin of a coat for the use.

Condition:

Interior occasional wetting	25-30 mills
Under mortars	25-30 mills
Underlayment	1/16 in.
Exposed	1/8 in.
Wood floors (incl. mesh reinforced underlayment)	1/8 in.
Over CMU (2 coats to seal pores)	1/8 in.

Up to Thicknesses:

Suitable substrates:

Concrete, masonry, blocks, bricks, plaster, Cement board, over structural wood & metal floor toppings. Check for proper bond.

Coverage:

Surface profile will determine your actual coverage. The values on the chart below are only an estimate over smooth surfaces. Units yield coverage may be slightly more or less.

Protection:

Protect coating from rain and water exposure for 24 hours while it cures.

Under wheel traffic, seal with a membrane forming sealer for best results and to guard against dirt and ease of cleaning.

Uses	Dry thickness	Yields max.
Wheel traffic, under floors Below grade, basements	1/8 in.	80 Sq./Ft.
Foot traffic under floors Pools, Ponds Tiled or Coated	1/16 in.	150 Sq./Ft.
Under flooring, under mortars Above grade interior	11/64 in. (4mm)	180 Sq./Ft.
Exposed, Roofs and structures	1/8 in.	80 Sq./Ft.
Above grade moisture protection	1/16-3/32	100-150 Sq./ Ft.

Properties:

Elongation: ASTM D-412. 60%
 Water resistance: ASTM D 5385 (4-psi/48 hrs.)
 Tensile strength: 1.6 MPa.
 Mandrel bend: 1/4in. Passed
 Vapor transmission: 4.5 perms
 PH resistance: Sea water; passed, 9+
 Shear Strength @ 7 days 242 ANSI 118.4

Warranty:

This product warranty is extended to within 5 years from manufacture. When product is used according to directions and it's intended use; this warranty is limited to the refund of the product purchase price if deemed defective at time of manufacture.

Products past their shelf life or improperly stored will not be considered.

This product sold as is and intended for industrial professional use by competent tradesmen with sufficient knowledge and experience on use and proper handling of these products.

The purchaser agrees to assume all responsibility for installation, product selection, application, job warranties, use, transport and disposal of product. Builders Construction Products shall not assume any responsibility for product, installations, or be liable to the purchaser or any third party for costs of labor, direct, indirect or consequential damages related or due to the use or suitability of this product.

No other warranties are implied. Disposal of unused product and all packaging is the responsibility of the end user.

Product does not contain any substances considered harmful to the environment.

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