



Product Description

AQUAFLOW-400 is a deep penetrating, three component water-based epoxy coating designed to be applied as a primer coat on humid, damp, or newly poured 'green' concrete surfaces. This coating promotes strong substrate and intercoat adhesion with excellent moisture permeability while helping to eliminate substrate outgassing. **AQUAFLOW-400** has been tested according to ASTM C309 meeting specifications to be used as a concrete curing compound. This low solids coating exhibits excellent concrete penetration, zero VOC's, fast dry time / return to service and good chemical resistance to solvents and aqueous acids.



Areas of Application

Residential Use - Entrances and hallways; Basements; Entertainment rooms; Bathrooms; Kitchens and living rooms; Outdoors spaces and pool outlines.

Commercial Use - Shopping malls and boutiques; Hotels; Offices; Showrooms; Restaurants; Hospitals; Schools; Community centers.

Industrial Use - Garages; Warehouses; Airports and hangars; Processing and manufacturing plants.



RESIDENTIAL



INDUSTRIAL



COMMERCIAL

Environmental Approvals / Certificates

- Meets CFIA and USDA requirements for indirect food contact / use in food plants.
- Conforms with LEEDv4 EQ credit: Low emitting materials SCAQMD Method 304-91 for architectural coatings.
- VOC content <10 g/L

Packaging and Recommended Thickness

AQUAFLOW-400 is offered in the following kit sizes:
1-gallon kit: 560 g resin (A) and 700 g hardener (B)
Addition of water is needed to fill gallon up to 3.78 L.

Recommended Film Thickness / Coverage

Primer Coat: 400-500 sq. ft. / per 1-gallon kit
Coverage depends on porosity of concrete. For very porous concrete, more material will be needed.

Product Properties

Working time on substrate:	15-20 minutes 21°C / 70°F @50% relative humidity		
Curing Schedule	10°C (50°F)	20°C (68°F)	30°C (86°F)
Recoat	1 hr.	45 min.	30 min.
Foot traffic	2 hrs.	1 hr.	45 min.
Full Chemical Cure	~10 days	~7 days	~5 days

Product Application

Apply using a fine quality 10mm roller to obtain a uniform coating. Coating can also be applied using an airless pump sprayer with .013" - .015" tip. Ensure that the substrate is completely saturated with product (concrete should have a wet look when completely saturated). Clean equipment with water. Once the product has hardened, it may only be removed mechanically.

Curing times are subject to variations determined by the ambient conditions, including air and substrate temperature, as well as relative humidity.





Surface Preparation

Remove dust, dirt, grease, oil, and all other contaminants with proper cleaner/degreaser. Prepare the surface mechanically as per ICRI-CSP2 profile by diamond grinding to ensure removal of laitance, curing agents and sealers.

Mixing Instructions

Empty container A (resin) into container B (hardener). Mechanically mix the combined product using a low-speed drill (300-450 rpm) until mixture becomes a thick creamy consistency. **Fill the remainder of container with water in increments of 3 equal parts using the metal liter can provided and mix well between additions.** Once the product is mixed proceed to application instructions. **Do not let the product sit in the container as it will rapidly start to react and cure.**



MIX A+B



LOW SPEED

Technical Properties

Viscosity ASTM D445-06	Part A Resin 1000-1100 cps. Part B Hardener 600-800 cps.
Solids by weight	25 %
Pull-Off Strength, ASTM D7234	> 400 psi (substrate failure)
Permeability to Water Vapor, ASTM E-96	0.06 g/m ² 24hr mmHg
VOC, ASTM D2369	10 g/L
Shelf life	1 year when stored in original, unopened packaging. Store dry at temperatures between 15°C to 30°C (59 °F to 86 °F). Protect product from freezing.

Product Restrictions

- Not recommended for application at temperatures below 10°C / 50°F or above 30°C / 86°F. An application below/above these temperatures will result in decreased product workability and cure times.
- The substrate temperature must be at least 3°C (5.5°F) above measured dew point.
- Exposure during the curing stage of the coating to the by-products of propane combustion may cause discoloration (amine blushing).

Disclaimer and Warranty

Everflow® warrants that our products are free from manufacture defects in accordance with our quality control procedures. Any products proven defective are limited to the replacement of defective products or refund of the purchase price as determined by Everflow®. Please contact your local Everflow® sales representative for more information and warranty requirements.

The information and recommendations contained in this technical data sheet are based on reliable test results according to Everflow®. The data mentioned are specific to the material indicated. If used in combination with other materials, the results may be different. It is the responsibility of the user to validate the information therein and to test the product before using it. Everflow® assumes no legal responsibility for the results obtained in such cases. Everflow® assumes no legal responsibility for any direct, indirect, consequential, economic or any other damages except to replace the product or to reimburse the purchase price, as set out in the purchase contract.

