

EVERflow®

Made by MPC



TECHNICAL DATA SHEET

version v.01-11-2025



AQUAFLOW-401

WATER-BASED ANTIMICROBIAL, GLOSSY EPOXY FLOOR AND WALL COATING



Product Packaging:

1-gallon kit: 1.2 kg resin (A) and 2.9 kg hardener (B)

Mix ratio by volume: B/A : 3/1

Approximate Product Coverage:

20 mil WFT ~80 sq.ft / gallon

*Coverage rates depend on porosity of the concrete and environmental conditions. Suggested rates are approximative and are intended for estimative purposes only.

Storage and Shelf Life:

1 year in original containers in a dry environment 5-35°C (41-95°F). Keep away from direct sunlight, extreme heat/cold or moisture. **Protect from freezing.**

Clean Up:

Clean up all the application equipment with soap and water, immediately following use. Dried material may require mechanical abrasion for removal.

Environmental Approvals / Certificates:

- VOC compliant in all of Canada and USA.
- Conforms with LEEDv4 EQ credit: Low emitting materials SCAQMD Method 304-91 for architectural coatings.

AQUAFLOW-401 is a versatile waterborne epoxy coating suitable for use as a high-gloss wall finish as well as a concrete primer or topcoat. It cures quickly even in challenging conditions, such as low temperatures (around 10 °C) and high humidity (up to 85% RH). The formulation allows for single-coat application up to 20 mils thick without significantly slowing cure times. AQUAFLOW-401 offers excellent color retention and UV resistance, strong adhesion to damp concrete, and rapid curing to improve job-site efficiency—enabling both primer and topcoat to be applied within the same day.

Features and Benefits:

- Rapid dry times with excellent early hardness development
- Offers excellent water repellency, carbamation and blush resistance
- Excellent adhesion strength on cold and damp concrete substrates
- Maximum productivity (less downtime); can apply primer and topcoat on the same day
- Superior pigmentation for color stability and UV resistance
- Excellent resistance to microbial growth, low toxicity and environmentally safe formulation
- Fully compliant with VOC regulations throughout North America

Applications:

Concrete substrates:

Entrances and hallways; Basements; Entertainment rooms; Bathrooms; Kitchens and living rooms; Shopping malls and boutiques; Hotels; Offices; Showrooms; Restaurants; Hospitals; Schools; Community centers; Warehouses; Airports and hangars; Processing and manufacturing plants.

Gypsum boards (interior walls):

Hospitals; medical research facilities; pharmaceuticals labs; schools; veterinarian offices; commercial kitchens; food and beverage processing areas; storage rooms; restrooms; locker rooms.

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Technical Properties:

Form / Color	Liquid, Clear (Also available in white, grey, beige, black)
Solids (wt%)	45-50%
VOC content	< 50 g/L
Dry Times @ 23 °C (73 °F) / 60% RH	Dry to touch 2-3 hours Foot Traffic 4-6 hours Vehicle Traffic 24 hours
UVA durability (ASTM G154/D4587)	Pass ($\Delta E < 1.5$ after 250 h UV-A) 23 °C (73 °F), 60% RH
Adhesion (Pull-Off, ISO 4624) Bond strength to damp concrete Mode of failure to damp concrete	Pass (6 MPa) Pass (> 90% concrete failure) *10 °C (50 °F), 60-85% RH / test on B25 concrete slab, damp 1.5-2% actual moisture content
Carbamation Resistance (Wet patch, ISO 2812) Rating 1-5 (5 = excellent)	Pass (4-5) *10 °C (50 °F), 60-85% RH

Surface Preparation and Application:

Remove dust, dirt, grease, oil, and all other contaminants with proper cleaner/degreaser. Allow newly poured concrete to cure for a minimum of 28 days before application. Prepare the surface mechanically as per ICRI-CSP2 profile by diamond grinding to ensure removal of laitance, curing agents and sealers. All cracks, holes and irregularities must be repaired with a crack filler prior to applying the coating. Gypsum boards should be primed with an acrylic water based paint prior to application.

Pre-mix part A using a low speed mixer until a uniform color is achieved. Empty container A (resin) into container B (hardener). Mechanically mix the combined product for 1 minute using a low-speed drill (300-450rpm) to reduce air entrapment and to obtain a homogeneous mixture. Apply using a rubber squeegee and back roll using a fine quality 10 mm roller to obtain a uniform coating. Maintain uniformity of coverage and avoid product puddling. Clean equipment with water. Once the product has hardened, it may only be removed mechanically.

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Limitations:

- Store material between 4 -32 ° C (40-90 ° F). Protect protect from freezing.
- Prior to application, measure substrate moisture content, ambient relative humidity, ambient and surface temperature and dew point.
- Direct-fired gas or kerosene heaters produce byproducts that can affect the curing process and must be turned off or properly exhausted.
- Do not dilute product.
- Do not allow product to puddle during application.
- A test area is always recommended prior to full application, to ensure desired results on surface.

Warranty and disclaimer:

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.