EVERflow®
Made by MPC

Technical Data Sheet
AQUASHIELD
MATTE / GLOSS

Product Description

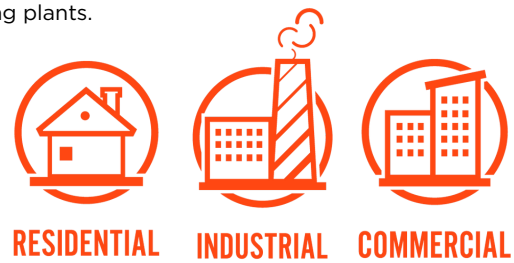
AQUASHIELD is a two-component, water-based aliphatic polyurethane clear floor coating with low VOC content and minimal odor. Designed as a UV, chemical, and solvent-resistant topcoat, it is available in both gloss and matte finishes. **AQUASHIELD** offers excellent abrasion resistance and UV color stability, making it suitable for direct application on concrete or as a durable, decorative layer over existing epoxy coatings.

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.



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 <100 g/L

Packaging and Recommended Thickness

AQUASHIELD is offered as a 1-gallon kit.
Available in a clear matte and gloss finish.

Mix Ratio: 6 parts resin A / 1 part hardener B by vol.

Recommended Film Thickness / Coverage
The recommended wet film thickness of this coating is 8-10 mils. / ~160-200 sq. ft. / per gallon 3.78 L

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)
Foot traffic	24-48 hrs.	24 hrs.	18-24 hrs.
Light traffic	72 hrs.	72 hrs.	48-72 hrs.
Full Chemical Cure	2 weeks	2 weeks	2 weeks

Product Application

It is recommended to apply the mixed coating using a roller with a ⅜-inch nap. Dip the roller into the tray and roll off any excess material in the application tray. Keeping a wet edge on the roller, apply the coating using light pressure in V-shaped crisscross strokes, then reroll in straight passes to minimize roller marks.

If additional coat is necessary, wait 24 hours and sand using an orbital buffing machine and 80-grit sanding screed. Clean tools and equipment with water immediately after use. Once cured, the product can only be removed by mechanical means.

Curing times may vary based on environmental factors such as air and surface temperature, as well as humidity levels. It is essential to protect the coating from moisture, condensation, and direct water contact during the first 24 hours of curing.

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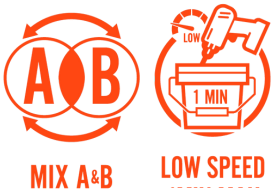
Surface Preparation

Bare concrete: 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. The compressive strength of a newly poured concrete substrate must be at least 25 MPA (3635 psi) after 28 days of cure and at least 1.5 MPA (218 psi) tensile strength. **Be careful with condensation (at least 3 degrees of the dew point).** All cracks, holes and irregularities must be repaired with a crack filler prior to applying the coating.

Previously coated surfaces: Make sure that any previously coated surface has been allowed to cure fully (according to their curing schedules). Ensure that the surface is dry and clean, free of any contaminants, grease, oil, paint, curing agents, dust, and laitance. Sand the existing coating using a 100-grit screed mesh, then thoroughly vacuum and clean surface prior to application of **AQUASHIELD.**

Mixing Instructions

Empty container B (hardener) into container A (resin). Mechanically mix the combined product for 1 minute using a low-speed drill (300-450 rpm) in a manner to reduce the incorporation of air and to obtain a homogeneous mixture. Once the product is mixed proceed to application instructions.



Technical Properties

Viscosity ASTM D445-06	Mixed: 500-600 cps.
Solids by weight	35-40%
Abrasion Resistance, ASTM D4060	Taber abraser CS-17 calibrase wheel 1000 cycles/1000 g = 0.05-gram loss
VOC, ASTM D2369	< 100 g/L
Gloss, ASTM D523	15 GU @ 60° (matte version) 90 GU @ 60° (gloss version)
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 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.
- Ambient humidity of the surroundings should not exceed 85% during application and during curing process. This product will take longer to cure in higher humidity.
- The substrate temperature must be at least 3°C (5.5°F) above measured dew point.
- Humidity content of substrate must be < 4% at time of application.
- Do not apply on porous surfaces where a transfer of humidity may occur during the application.
- Applying this product on a substrate without a moisture barrier may risk delamination due to hydrostatic pressure.
- Freshly applied product must be protected against moisture, condensation, and water for at least 48 hours.
- It is important to turn off ventilation and limit wind exposure to protect coating from premature cure and uneven finish.
- **Rubber burns caused by quick stops or starts on coating can cause permanent marking. Rubber tires can permanently stain the coating due to plasticizer migration.**

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.

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