EVERflow
Made by MPC

Technical Data Sheet

EF-Masterflow

Product Description

EF-Masterflow is a 2-component, 100% solids, self-leveling and high-build epoxy floor coating. This low viscosity coating is specifically formulated with state-of-the-art defoaming agents and surface additives to help increase air release, leveling and pigment wetting. It is designed to be used solely as a topcoat to create metallic/decorative flooring systems. **EF-Masterflow** is a cycloaliphatic coating that exhibits superior UV stability. It also has excellent adhesion, abrasion, impact, and chemical resistance.

SELF LEVELING | HIGH BUILD | V.O.C. APPROVED | INFINITE DESIGNS & STYLES

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 <50 g/L

Packaging and Recommended Thickness

EF-Masterflow is offered in the following kit sizes:
3-gallon kit 7.56L resin (A) and 3.78L hardener (B)
Bulk packaging also available upon request.

Available in clear.
Color pigment packs are offered in 16 oz jars (2 jars / 3gal kit)
Pearlescent pigments are offered in 8 oz jars (1 jar / 3gal kit)

Recommended Film Thickness / Coverage
150 square feet per 3-gallon kit @ 32 mils thickness

Product Properties

Working time on substrate:	35 minutes 21°C / 70°F @50% relative humidity		
Curing Schedule	10°C (50°F)	20°C (68°F)	30°C (86°F)
Recoat (max. 48 hrs)	24-48 hrs.	18-24 hrs.	16-18 hrs.
Foot traffic	~2 days	~1 days	~18 hrs.
Vehicular traffic	~4 days	~2 days	~2 days
Full Chemical Cure	~10 days	~7 days	~5 days

Product Application

Apply using a rubber squeegee to obtain a uniform coating. Clean equipment with appropriate solvent. 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. It is imperative to shield the coating from moisture, condensation, and direct water exposure during the initial 24-hour curing period. If the recommended recoating time has exceeded 48 hours, it becomes necessary to sand the prior coat using a screed mesh to eliminate any glossy finish. Moreover, thorough cleaning by vacuuming is essential to eradicate any dust particles. The surface should exhibit a consistent matte appearance, entirely devoid of any gloss, following the cleanup process, before proceeding to apply the next coat.

Contact Us

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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. 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 above the dew point).** All cracks, holes and irregularities must be repaired with a crack filler prior to applying the coating.

Mixing Instructions

Empty container B (hardener) into container A (resin). Mechanically mix the combined product for a maximum of 1 minute using a low-speed drill (300-450rpm) to reduce air entrapment and to obtain a homogeneous mixture. 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
1MIN MAX

Technical Properties

Viscosity ASTM D445-06	Part A Resin 1750-1850 cps. Part B Hardener 250-350 cps.
Solids by weight	100 %
Abrasion Resistance, ASTM D4060 ASTM D4060	Taber abraser CS-17 calibrase wheel 1000 cycles/1000 g = 0.1-gram loss
Elongation @ Break, ASTM D638	7% at break
Compressive Strength, ASTM D695	7,200 psi
Tensile strength, ASTM D638	5,500 psi
Pull-Off Strength, ASTM D7234	> 363 psi (substrate failure)
Coefficient of Friction, ASTM E303-93 DCOF	~0.42 wet (smooth high gloss) ~0.92 dry (smooth high gloss)
Hardness, Shore D ASTM D2240	80-85
VOC, ASTM D2369	< 50 g/L
Gloss, ASTM D523	94.7 GU @ 60°
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).

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.
- 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.
- Surface discoloration of product will occur upon prolonged exposure to UV rays.
- 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.

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