

APPLICATION SHEET

SURFACE & SUBSURFACE / REACTIVE GROUT / INSOLUBLE

GREENUMBRELLA®

ProfileFil Plus+



Indoor



Outdoor

Application Ratio:

400-600 SF per gal.

Dwell Time:

30 min.

Drying Time:

30-60 min. @75F & 50% RH to foot traffic, 3 hours to wheel traffic

IMPORTANT:

Read Technical Data Sheet and SDS prior to application. Follow all directions, including safety information. Installer education, training and appropriate handling is necessary for product success. Due to the variety of concrete, the applicator must test the product for compatibility prior to full application.



Broom



Autoscrubber



Sprayer



Grinder

Surface Preparation

@EarlyAge™, @MatureAge™, or @Profile&Polish™ concrete should be free of all debris and potential contaminants—including film-forming cure and seal, wax, topical coatings or sealers and oil or food spills—prior to application.

Environmental Conditions

For Green Umbrella® DryShield™ to effectively penetrate the substrate, the temperature should be 40 °F and rising, not exceeding 90° F. For windy conditions or temperatures exceeding 95 °F (35 °C) on @EarlyAge Next-Day & @MatureAge concrete: Hydrate for 30-60 minutes in the most arid conditions, disperse any puddles, then immediately apply DryShield at 400 SF per gallon, more if needed. If necessary, mist the slab with sufficient water at 20 minutes to achieve the required 30 minutes of wet surface dwell time. Allow to dry.

@EarlyAge & @MatureAge Concrete To Be Abrasively Polished

Generally applied on @MatureAge concrete, for damaged @EarlyAge concrete use Green Umbrella ProfileFil Plus a few days after concrete placement & finishing and follow directions below for @MatureAge.

@MatureAge Concrete To Be Abrasively Polished:

Use only during the conclusion of Profiling. Do not use during Honing or Polishing. Do a mock-up for best results.

1. Dilute ProfileFil Plus treatment 1:2 with water in a dedicated sprayer.
2. Profile Wet. For Specified or desired Aggregate Exposure Class select metal or fusion abrasive(s) and proceed.
 1. Introduce ProfileFil Plus with final Profile Abrasive - Use with GCX™ metal abrasives or GU Fusion abrasives. **Do Not** introduce under honing or polishing abrasives, since no slurry would be formed.
 2. Spray sufficient product to cover the working path of the Grinder. Work a section at a time, applying only to the area being profiled.
 3. Work into the floor, agitating with a dedicated soft bristle broom.

TIME, TEMPERATURE & HUMIDITY

For a chemical reaction to take place successfully, time must be allocated for the full reaction. Likewise, when applying Green Umbrella ProfileFil Plus to concrete, there must be an adequate amount of dwell time for the reaction to take place. Doing so will help to achieve the best result.

For ProfileFil Plus to effectively penetrate the substrate, the temperature should not be less than 40°F (4°C) for several hours after application. If temperatures are lower than recommended, the chemistry may take much longer to react and penetrate the concrete substrate. If the temperature exceeds the recommended maximum of 95°F (35°C), or if conditions are windy, the chemistry could react and dry before penetrating the substrate. In such circumstances, keep floors hydrated with water for recommended dwell time.

Humidity also plays a role in the dry time. The product applied to a dry slab of concrete in an arid climate will dry faster than in a humid environment. In dry climates with low humidity, it may be necessary to hydrate the slab to allow for proper dwell time. If several treatments are being applied, product staging should be planned to meet all treatment **dwell times** and **dry times**. It is recommended to use **dew point** data from a mobile hygrometer to determine the best staging of concrete treatments to eliminate needless downtime. *Please consult a Green Umbrella consultant with any questions.* The use of on-site hygrometers and thermometers can provide meaningful data to facilitate treatment application success.

4. Allow the GCX Metal or Fusion abrasive to generate a slurry to create the fill.

5. Squeegee behind the completed area and allow to dry.

Proceed with Abrasive Polishing

3. Double-scrub with an auto-scrubber equipped with GU recommended pads/brushes. Do not use 'drum style' brushes.

4. Important: For high temperature or windy application, see Note to Applicator: Time, Temp. & Humidity.

5. If there will be topical color application: Apply Green Umbrella NanoDye™ colorants (use as directed) before proceeding to the next step.

6. Double-scrub with an auto-scrubber equipped with GU recommended pads/brushes. Proceed to honing abrasive cut. This is required if sub-topical or penetrating surface treatment is applied for HydroShield to bond properly.

7. Use Green Umbrella DryShield (a Densifier), following manufacturers instructions.

8. Double-scrub with an auto-scrubber, equipped with GU recommended pads/brushes.

9. Proceed to Honing abrasive cut(s) and Polish abrasive cut(s), if specified.

10. Apply Green Umbrella Microfilm™ (a surface treatment) according to instructions.

11. Maintain the Profiled, Honed and Polished surface using Health Sentinel Maintenance - designed for sustainable architectural concrete.