

APPLICATION SHEET

SUBSURFACE / PENETRATING-REACTIVE / REPAIRABLE ENHANCEMENT

GREEN UMBRELLA® INTERIOR MICROFILM

Application Ratio:

1,000 - 3,000 SF per gal.

Dwell Time:

20 min.

Drying Time:

30-60 min. @ 75°F & 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. Respect Time, Temperature & Humidity.



Indoor



Outdoor



Sprayer



Broom



Autoscrubber



T-Bar



Burnisher



Mixing Paddle

Surface Preparation

@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 and all slurry or dust from the profile, hone and polish process—prior to application. Surface should be autoscuffed with Green Umbrella GreenClean & Degreaser or GreenClean w/ Slip Resist and dust mopped with a clean, untreated dust mop.

Environmental Conditions

For Green Umbrella® Interior MicroFilm™ 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 @Profile&Polish concrete: Exercise caution. It is not recommended to apply Interior MicroFilm in high wind conditions. If the substrate is exposed to the elements, do not apply Interior MicroFilm if there may be standing water within the first 72 hours after application.

@EarlyAge & @MatureAge Concrete To Be Abrasively Polished:

When desiring an @EarlyAge profile, use Green Umbrella GreenIce Cure System™ during and immediately after concrete placement & finishing, proceed with abrasive hone and polish process a few days after the pour. Consult IceStart and IceStop TDS for details.

1. Profile or Hone to achieve a specified or desired class of grind with GreenCut™ cutting agent and GC™ abrasives. Trowel or Variable speed concrete Grinder should be used to refine the surface. Surface abrasive profile should be taken to Polish - following best practice - Profile, Color introduction, Densification, Hone and Polish.
2. After final abrasive Polish - Double-scrub with an auto-scrubber equipped with GU recommended pads/brushes.
3. Prior to introducing Interior MicroFilm™, the floor must be dry, protected from the elements such as rain or standing water.
4. Interior MicroFilm™ is R.T.U. and should be applied S.O.L.O. to a clean surface by a team of installers.

TIME, TEMPERATURE & HUMIDITY

For a chemical reaction to take place successfully, time must be allocated for the full reaction. When applying Green Umbrella Interior MicroFilm™ to concrete, the installer must allow adequate dwell time for the reaction to take place. Doing so will help to achieve the best result.

Humidity also plays a role in the dry time. Product applied to a dry concrete surface 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 pre or post application 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 course of action and 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. **Call, e-mail or text your Green Umbrella consultant for assistance.**

5. Using a dedicated, clean, dry, GU recommended (non-metal) sprayer with a conical tip, spray evenly on the surface at a rate of 3,000 SF per gallon.

6. Use a clean GU T-bar to evenly applicate, working the material over the surface, moving excess material ahead, without puddling. Periodically check applicator head for cleanliness and change as necessary. Dirty applicator heads may be cleaned with water and immediately re-used.

7. Spray and apply, keeping a wet edge without walking or tracking over any completed areas, work toward the exit. Introduce and apply evenly to achieve proper dwell time and reactivity. Do not attempt to re-wet or re-apply treatment to quick dry areas.

8. Following the application of the first coat, ALWAYS apply a second coat. The second application will be 'thinner' but is not a 'spiff coat'. The second application will remain wet for 15-20 minutes before drying.

9. Allow to air dry. Burnish with a weighted, concrete equipped, UHS burnisher outfitted with a GreenGloss thick black pad. Never use a 'diamond impregnated' pad. For best results, use a concrete weighted GreenGloss burnisher.

10. For maximum protection 24 hours after the second coat, apply the THIRD application of Interior MicroFilm™. Follow the methodology of the second coat AND burnish using a propane-powered, UHS, concrete-weighted burnisher.

11. Scrub with an auto-scrubber equipped with GU recommended pads/brushes. Proceed with PHP process. (If using MaxDefense introduce Shield & Enhance after Dry Shield. The surface should be clean & dry.)