

# APPLICATION SHEET

SUBSURFACE / *MatureAge*<sup>™</sup> COLORANT / QUICK-DRY

## GREEN UMBRELLA<sup>®</sup> ColorFlash



Indoor



Outdoor

### Application Ratio:

400-600 SF per gal.

### Application Ratio w/GreenCut<sup>™</sup>:

500-700 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



T-Bar



Grinder



Burnisher

### Surface Preparation

@*EarlyAge*<sup>™</sup>, @*MatureAge*<sup>™</sup>, or @*Profile&Polish*<sup>™</sup> concrete should be free of all surface debris and potential contaminants—dust, dirt, oil or food spills. To attack subsurface contamination, pre-treat the substrate with Green Umbrella GreenClean & Degreaser (not a shock treatment) following manufacturer instructions. Any topical coatings or sealers — including film-forming cure and seal, wax, etc. — must be completely removed prior to application.

### Environmental Conditions

For Green Umbrella<sup>®</sup> ColorFlash<sup>™</sup> to effectively penetrate the substrate, the temperature should be 40°F and rising, not exceeding 90°F. Intended for **Interior use only**.

### @*EarlyAge* Concrete

Green Umbrella does not recommend the use of ColorFlash<sup>™</sup> for concrete that is considered @*EarlyAge* - day of placement thru 28 days post placement. For concrete colorant solutions for @*EarlyAge* concrete consider the use of Green Umbrella ColorPac (integral color) or Green Umbrella NanoDye. Read product technical data sheets for additional information.

### @*MatureAge* Concrete

1. Green Umbrella<sup>®</sup> ColorFlash<sup>™</sup> requires mixing at least 3 hours prior to application. It is not designed for exterior application.

2. **Mixing:** ColorFlash requires mixing with Acetone and will benefit from a penetrating agent for enhanced color penetration and vibrancy. Mix with Acetone at least 3 hours prior to placement. Always observe safety protocol when using (highly flammable) acetone as a carrying agent.

3. Apply S.O.L.O.<sup>1</sup> to a clean surface with an acetone safe, clean, dedicated GU recommended sprayer with a drip-free conical tip. Spray evenly on the surface, keeping the spray tip 12"-18" from the surface.

4. **Application Ratio:** Yield will vary depending on the concrete surface. Average expected coverage ratio 400 SF per gallon.

5. If necessary to distribute treatment, use a GU T-Bar with a clean pad to promote uniform coverage, or disperse puddles — no need for agitation.

# TIME, TEMPERATURE & HUMIDITY

For a chemical reaction to take place successfully, time must be allocated for the full reaction. When applying Green Umbrella ColorFlash to concrete, there must be an adequate amount of dwell time for the reaction to take place successfully. Proper dwell time will help to achieve the best result. For ColorFlash to effectively penetrate the substrate, the temperature should be 40°F (4°C) and rising for several hours from application forward. 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.

Humidity also plays a role in the dry time. The product applied to a dry concrete surface in an arid climate will dry faster than in a humid environment. In a PHP process, 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. The use of on-site hygrometers and thermometers can provide meaningful data to promote treatment application success.

6. **Dwell Time:** Acetone will flash off in seconds, leaving colorant behind. Product will not gel.

7. **Overspray:** Mask any area not designated for color. Immediately wipe with a wet cloth and follow with a dry cloth to remove treatment from finishes or furniture after contact.

8. **Dry Time:** Within seconds. Allow product to air dry. Environmental controls will facilitate consistent dry times.

9. ColorFlash will leave a surface residue that must be removed by auto-scrubber. Using an auto-scrubber equipped with red or green pads or soft brushes and clean water, scrub the entire dyed surface.

10. **Time to Traffic:** ColorFlash requires colorguard densifier or sealer prior to traffic and general use. Densifier may be applied immediately after auto-scrubbed removal of residue. See densifier or sealer TDS for required surface prep and subsequent time to traffic.

## @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 profile, aggregate reveal or class of grind with GreenCut™ liquid cutting agent and GC™ abrasives. Consult GreenCut™ TDS for details. For best results use equipment designed with the weight and RPM to produce planetary action (active or passive).

2. When ColorFlash is to be used, the floor must be in the dry, protected from the elements such as standing water or UV exposure. Green Umbrella ColorFlash™ indoor colorants must be applied **before** proceeding with densifier application. Consult ColorFlash™ TDS for details.

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

4. Dust Mop using a clean, untreated head to remove any potential surface contaminants.

5. Green Umbrella® ColorFlash™ requires mixing at least 3 hours prior to application. It is not designed for exterior application.

6. **Mixing:** ColorFlash requires mixing with Acetone and will benefit from a penetrating agent for enhanced color penetration and vibrancy. Mix with Acetone at least 3 hours prior to placement. Always observe safety protocol when using (highly flammable) acetone as a carrying agent.

7. **Application Ratio:** 400 SF per gallon. Yield based upon use with GreenCut and will vary depending on the concrete surface.

8. Keeping the spray tip 12-18" from the surface, evenly spray colorant in a

sweeping, figure-eight pattern. Allowing color to evenly lay on the substrate. Do not puddle.

9. If necessary to distribute treatment, use a GU T-Bar with a clean pad to promote uniform coverage, or disperse puddles — no need for agitation.

10. **Dwell Time:** Acetone will flash off in seconds, leaving colorant behind. Product will not gel.

11. Test colorfastness using a clean dry cloth. Wiping to ensure penetration and bond prior to auto-scrubbing. There will be residue on the rag, make sure there is colorant within the surface.

12. **Dry Time:** Within seconds. Allow product to air dry. Environmental controls will facilitate consistent dry times.

13. Overspray: Mask any area not designated for color. Immediately wipe with a wet cloth and follow with a dry cloth to remove treatment from finishes or furniture after contact.

14. **Time to Traffic:** For best results - light foot traffic when dry, or after 1 hour. Wheeled traffic and profiling after 1-3 hours.

15. ColorFlash is designed to be introduced into the substrate before abrasive polishing. Polishing may be passive or active planetary, trowel or concrete grinder. High RPM, using a PolishPlus abrasive.

16. Proceed with PHP process and specified treatment system. (Densifier(s), Polish, Interior MicroFilm for MaxDefense with Color System). Green Umbrella recommends the use of Shield & Enhance on every ColorFlash floor.