

# APPLICATION SHEET

## DEEP SUBSURFACE / @EarlyAge™ NANO DYE, PH NEUTRAL DENSIFIER / BRILLIANT APPEARANCE



Indoor



Outdoor

### Application Ratio:

400-600 SF per gal.

### Application Ratio w/GreenCut™:

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™, @MatureAge™, or @Profile&Polish™ concrete should be free of all surface debris and potential contaminants—dust, dirt, oil or food spills. To remove subsurface contamination, pre-treat the substrate with Green Umbrella GreenClean & Degreaser™ (not a citric acid) following instructions for use. 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® ColorDeep™ to effectively penetrate the substrate, the temperature should be 40 °F and rising for several hours, not exceeding 95° F. ColorDeep is not UV stable and should not have ponding water thus should only be installed on projects in-the-dry, given suitable protection from the sun.

**Mixing:** Green Umbrella ColorDeep requires mixing of NanoDye and DryShield, mix thoroughly. There is no minimum mix time. Do not dilute.

### @EarlyAge Concrete & @MatureAge Concrete

1. Not recommended for concrete that is not abrasively polished. For integral concrete use Green Umbrella ColorPac™, broom finished concrete use ColorShield™ and for topical color SurfSeal™.

### @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 and/or Hone abrasively using GreenCut™ and GC™ abrasives to achieve the specified or desired profile, aggregate exposure or appearance. Trowel or Variable Abrasive Concrete Grinder could be used.

2. When NanoDye colorants are used, the floor must be in the dry, protected from the elements such as standing water or UV exposure.

3. Double-scrub with an auto-scrubber equipped with GU recommended pads/brushes using GreenClean & Degreaser™ and clean water.

# TIME, TEMPERATURE & HUMIDITY

For a chemical reaction to take place successfully, time must be allocated for the full reaction. When applying Green Umbrella® ColorDeep™ to concrete, there must be an adequate amount of dwell time for the reaction to occur. Proper dwell time will help to achieve the best result. For ColorDeep 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 slab of concrete in an arid climate will dry faster than in a humid environment. 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. The use of on-site hygrometers and thermometers can provide meaningful data to facilitate treatment application success.

4. Dust Mop using a clean, untreated head to remove any potential surface contaminants.
5. ColorDeep is a mixed product (NanoDye and ColorDeep base) and should be mixed thoroughly prior to placement. There is no required wait time prior to application.
6. **Application Ratio:** ColorDeep should be applied S.O.L.O. to a clean surface with a dedicated GU recommended (non-metal) sprayer evenly on the surface at a rate of 400-500 SF per gallon. No need for agitation. Yield will vary depending on the concrete surface.
7. Plan application to maintain a wet edge and work toward an exit. Spray onto concrete and applicate using the weighted T-Bar to distribute evenly. Maintain a wet edge, exercise caution to connect passes without tearing drying product. Do not re-apply to fast drying areas. Work toward the exit. Do not walk over the freshly placed surface.
8. **T-Bar Note:** Change applicator pads frequently to prevent surface contaminant build-up which may affect final finish. Clean used T-Bar pads using clean water for future re-use.
9. **Overspray:** Immediately wipe with a wet cloth and follow with a dry cloth to remove treatment from finishes or furniture after contact.
10. **Dwell Time:** 20 minute wet finish for full reaction. Product will not gel or require rinsing.
11. **Dry Time:** Allow product to air dry. The surface should be dry 1-3 hours prior to using a PolishPlus™ abrasive. If treatment is not dry within one or two hours, indirect blowers or fans may reduce dry time. Environmental controls will facilitate consistent dry times.
12. ColorDeep 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.
13. Proceed with PHP process and specified treatment system. (Polish > Interior MicroFilm for BaseDefense with Color System; Shield & Enhance> Polish >Interior MicroFilm for MaxDefense with Color System).
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. Maintain using a Green Umbrella recommended maintenance program using GreenClean & Degreaser or GreenClean w/Slip-Resist.