COLORED
EPOXIES

Colored Epoxy: Application Data Sheet

The information contained in this Data Sheet is intended for use of by those individuals engaged in applying Colored Epoxy coating product in residential, commercial, and industrial applications.

***ALWAYS BEST TO USE CLEAR COAT OVER EPOXY EXTERIOR**

Applications

Colored Epoxy is a two-part system A & B, a resin and a curative that was designed for application over concrete:

- Garage Floors
- Basements
- All Concrete, Masonry, Cementitious Materials
- Concrete Floors & Walls
- Brick, Stone, Porous Surfaces

Characteristics:

- *Mix Ratio (2:1)* - Colored Epoxy: Modified Flexible Epoxy must be measured and mixed at a 2:1 ratio resin (A) to curative (B). Measure desired amount of resin and curative in a gallon pail and thoroughly mix with a squirrel mixer wand on a drill until the mixture has become fully mixed, 2-3 Minutes mix time.
- *Pot Life* - When properly mixed, Colored Epoxy has a working time of 30 Minutes at 75°F.
- *Cure Time*–The Colored Epoxy will take 12-24 hours to fully cure. Cure time may vary depending on temperature.
- *Temperature* – Colored Epoxy cannot be applied in temperatures below 50°F.
- *Substrate*– Substrate temperature must be above 50°F.
- *Dry Substrate*– The substrate must be completely dry before application of Colored Epoxy. The substrate must contain no moisture. Colored Epoxy will not adhere if moisture is present.
- *100% Solids* – Colored Epoxy has zero VOC's. Colored Epoxy will cure to a clear coating when mixed correctly.
- *Inorganic Pigments* – Bold Vibrant Colors are brought to you by the latest and greatest inorganic color pigments.

APPLICATION INSTRUCTIONS

Surface Preparation

Power Wash - Remove any loose materials as well as surface dirt, oils and grease with a 5000 PSI Commercial Power Washer. We recommend the use of our Water Jet Blaster Power Washer Adapter.

Application of Colored Epoxy

OSHA REQUIRES THAT ANYONE APPLYING COLORED EPOXY, OR WHO IS IN NEAR PROXIMITITY TO ITS APPLICATION, MUST WEAR GLOVES AND PROTECTIVE EYEWARE DURING APPLICATION.

Application as Primer/Binder

1. Mask all non-work areas and other surfaces in proximity to where Colored Epoxy is being applied, as well as all surfaces that may come in contact with Colored Epoxy. This will prevent the difficult process of removing the Colored Epoxy from surfaces or equipment where it is not desired.

2. Cover eyes and exposed skin with appropriate apparel and industrial latex gloves to protect from chemical irritation.
3. Measure the resin and curative in a 2:1 ratio and mix with a squirrel mixer until it has Fully Mixed before applying Colored Epoxy.
4. Avoid application in strong, direct sun light which may cause Colored Epoxy to discolor.
5. Apply Colored Epoxy evenly with disposable brushes or disposable polyester or foam rollers. We recommend the use of ¾" nap when using polyester rollers. Colored Epoxy can also be applied using a 1/8" V-notched squeegee.
6. Applications should be a minimum of approximately 5 mils (thickness of a sheet of note paper) when applied properly.
7. Two coats are recommended to assure proper penetration to surfaces of varying porosity. Second coat may be applied within 2 to 4 hours over tacky first coat when used as a primer or waterproofing application.
8. Avoid Using Colored Epoxy Exterior without Clear Coat Protection when using Colored Epoxy for Exterior Applications in direct sun. Colored Epoxy Must Have Clear Coat when used exterior.

Application Conditions

- *Air and Substrate Temperatures* — Minimum - 50 degrees
Maximum - 100 degrees
- *Relative Humidity* — Minimum - 20 %
Maximum – 99%

- *Surface Moisture* – Surfaces should be completely dry.
- *Sunlight* – Avoid application during prolonged strong, direct sunlight.

Clean Up

Spills

1. *Wet Spills* - Quickly remove as much Colored Epoxy as possible with rags or Speedi Dri. Remove remainder with power washer. Any residue may be removed by pouring any of the following over the residue, waiting for 5 to 10 minutes, and then removing with a firm bristle brush, rags, and/or power washer:

    - 70% isobutyl rubbing alcohol; or
    - acetone, xylene; or M.E.K.
    - degreasing detergents

2. *Dry Spills* – Scrape hard residue off with a metal paint scraper and then remove any remaining Colored Epoxy with power washer.

Equipment

1. Use disposable brushes and rollers to avoid the cost and time required to clean application equipment.
2. Colored Epoxy can be removed from any hand tools, etc. through the use of the products listed above.

Dry Times

- *Re-Coat Time* – 3 to 4 hours between coats. Can be re-coated over tacky surfaces.
- *Light Foot Traffic* – 12 hours
- *Heavy Traffic* (including vehicles, furniture and equipment placement) – 24 to 48 hours, depending upon ventilation and atmospheric conditions.

HOW TO INSTALL EPOXY AND FLAKE OVER NEW CONCRETE

DAY 1

1. For new concrete installations (no need to grind concrete) use commercial power washer 4600 psi with special tip water jet blaster.
2. Use fans to dry concrete 100%
3. Mask off areas in which you do not want epoxies to touch; vents, wood trim, drains, pipes, concrete, etc.
    - Now you are ready to start epoxying and flake.
    - make sure you have your kit ready in hand prior to start, see kit link: http://www.coloredepoxies.com/product_info.php/products_id/43
4. Fill one gallon container to 80 oz. of colored epoxy resin 2 part, then pour in curative until it reaches 128 oz. totaling one gallon.
5. Use mixing drill and one gallon squirrel mixer to mix contents thoroughly typically 2 minutes at room temperature
6. Pour contents in 18" black deep well bucket.
7. Using 6" hot dog roller, roll out epoxies tight to wall half way down room.
8. Use 18" roller ¾" nap to roll out room.
9. Keep mixing fresh batches of epoxies as needed.
10. Using spiked shoes to walk on colored epoxy. Person one can be flaking using similar dry plastic pails, while person two is roller coating and person three is mixing epoxies and filling and delivering buckets of flake. Repeat process until entire area is complete.

DAY 2

11. Use leaf blower to blow flakes to one corner of room, pick up.
12. Repeat steps 5 to 9 this time using clear MFE epoxy resin and curative clear coat on of two clear coat applications. Let dry overnight.

DAY 3

13. Apply second clear coat of epoxy two of two. Repeat steps 5 to 3.

DAY 4

14. Most important! Use colored epoxies, clear MCU polyurethane to as the final finish. See benefits disclaimer:
    http://www.coloredepoxies.com/pdfs/Colored-Epoxy-Application-Guide_10_04_15.pdf
    pour directly into deep well bucket, no mixing necessary. Shake can before use. Be sure to use in well ventilated areas, we recommend the using of a respirator. Repeat steps 6 to 8 only, apply evenly.

    * Note: do not re-roller coat of material. Apply steadily. Product is moisture cured, cures by humidity. The higher the humidity the faster it cures; gets tacky quickly on these conditions.

DAY 5

15. Pull tape off, use up any leftover final finish clear coat material where sun exposure is most prevalent.

    *note: if using as an exterior coating IE: pool deck, walkway, patio, etc. Repeat steps 4 to 5 for best optimal sun UV protection.
    Epoxies clear coat will always maintain it beautiful luster and guarantees your epoxies will be protected from sun's harmful rays (yellowing) and chemicals.
    *note: for best results, apply product on a cool surface to avoid bubbling. Do not apply directly in the sun. Shaded area and early morning application is best. *if minor bubbling occurs, a flat floor scrapper can be used to collapse the bubbles

    Enjoy your new floor.
    Colored epoxies.com family

HOW TO INSTALL EPOXY AND FLAKE OVER OLD EXISTING CONCRETE

1. Using Dyna Inserts grinding bits (sets of 6) and concrete grinding machine gas or electric (can be shot blasted as well) most tool rental companies have machine and bits. Grind down all concrete grease and oil stains until debris is removed from concrete and concrete pores are opened. Optimal for best epoxy adhesion to concrete. This is a very important process to eliminate adhesion failures in the future. Use vacuum attachment to control dust.
2. Use 8" angle grinder and dust shroud. Link Eric dust shroud with vacuum attachment where concrete meets walls, tight areas around poles. Most installers prefer to start with this process before using stand up machine.
3. Use vacuum (wet/dry) to remove 100% of dust from concrete.
4. Once dust is completely removed you are ready to start epoxy and flake. Repeat steps 3-15