



# ORIGINAL COLOR CHIPS FLOOR SYSTEM BREAKDOWNS

DECORATIVE FLAKE EPOXY FLOORING SYSTEMS FOR ANY APPLICATION

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## UNIVERSAL FLOOR PREPARATION GUIDELINES

- First prep concrete by preferred method, we recommend grinding or shot blasting. (view various methods of concrete prep at our Flooring 100 page at our website: [https://www.originalcolorchips.com/garage\\_flooring\\_101.html](https://www.originalcolorchips.com/garage_flooring_101.html))
- All residue-traces of oil and grease and other contaminants must be removed before grinding or shot blasting. Grinding and shot blasting will only push contamination deeper into the porous concrete surface. Use oil and grease emulsifiers to clean thoroughly. Phosphoric Acid Solutions or TSP (Trisodium Phosphate) will dissolve dirt, oil, and surface contaminants. Stubborn or heavy residue areas may require repeated applications.
- Sweep and/or vacuum the ENTIRE work area thoroughly after etching, leaving NO debris in the workspace.
- Do any and all filling, patching, etc. Make sure chosen patching and filling compounds have cured appropriately before continuing. Remember, if the filling compound is not flat when applied, it will need to be re-ground flat before coating or you will see the raised areas in the sheen of the finished product.
- After following these preparation steps you can continue your coating project with any of the following systems.

### System #1

#### WATERBORNE EPOXY COATING

##### RANDOM CHIP BROADCAST

Ideal for interior; no hazardous fumes, low-odor, thin mil application - low impact garages, perfect for basements

NO UV-STABLE UNDER DIRECT SUNLIGHT - VOC compliant to use in any project - Very easy to install

< click for application instructions >

3-DAY  
PROCESS

#### Step #1- Original Color Chips™ WATERBORNE EPOXY - PRIMER

- \* Features excellent adhesion, corrosion resistance, and good resistance to splash, spillage or fumes of a wide range of chemicals. May be topcoated with epoxy, urethane, alkyd, or latex coatings. Light gray color permits good coverage with first finish coat
- \* Used over concrete or masonry (glazed brick, vinyl tile, or ceramic tile primer available as well).
- \* 1-gallon kit will cover up to 250 sq/ft
- \* Minimum re-coat time 8-12hrs.

Day 1: prep concrete, Apply primer coat of epoxy.

#### Step #2- Original Color Chips™ WATERBORNE EPOXY - BASECOAT

- \* shipped in 1 gallon, 2 gallon, or 10 gallon kits (1:1 mix ratio - part a and part b)
- \* Apply chips to desired broadcast into the wet epoxy, applying epoxy by roller & brush in strips starting at furthest point from exit. It is best to work wet epoxy from one side of the room to the other, working toward the exit 4ft.-6ft. at a time (or as far as you feel comfortable to still get an even broadcast of chips).
- \* Standard colors are light gray, slate gray, charcoal gray, beige, taupe, wheat, tile red, or black. Custom tint colors available at no additional charge.
- \* 1-gallon kit will cover up to 250 square feet
- \* Minimum re-coat time 8-12hrs.

Day 2: Apply 2<sup>nd</sup> coat of epoxy and disperse color chips.

#### Step #3- Original Color Chips™ WATERBORNE EPOXY - CLEARCOAT

- \* 1-gallon kit of Original Color Chips Waterbased Epoxy Clear Gloss Finish
- \* Apply by roller & brush in an even coat, being careful not to apply too thick. Thickly applied waterborne clear will have problems curing correctly.
- \* If non-skid is needed, broadcast non-skid aggregate similarly to how chips are disbursed. Make sure to back-roll all non-skid areas AFTER non-skid is broadcast to seal it in and promote vanishing of non-skid aggregate into clearcoat.
- \* High gloss shine - Low odor - perfect for basements.
- \* 1-gallon kit will cover over 300 square feet.
- \* Allow 24 hours for light foot traffic, and 5-7 days for vehicular traffic (if applicable).

Day 3: apply Clearcoat epoxy.

## System #2

### SOLVENTBORNE EPOXY COATING

Ideal for high traffic applications- perfect for garages, barns, etc.  
(not for use in confined space or when odor while applying presents an issue)

#### RANDOM BROADCAST OF CHIPS

Includes a slow-dry primer coat that seals off the floor by sinking deep within the substrate to assure good adhesion and create a vapor barrier. It is then coated with an epoxy coat that offers a high build (77% solids) coat, and a chemical resistant / uv resistant layer as your finish coat.

< CLICK FOR APPLICATION INSTRUCTIONS >

**3-DAY  
PROCESS**

#### Step#1- SLOW DRY PRIMER/SEALER Preprime 167 Penetrating Coat

- \* High Performance, two component 100% solids penetrating sealer.
- \* Apply pre-prime in a thin coat by roller & brush (when properly applied, the concrete looks like it has merely had water rolled onto it) to successfully and deeply penetrate the concrete and seal the pores, providing maximum “grab” into the substrate. It’s a slow curing product to sink deeper into the concrete.
- \* Eliminates “pinholes” caused by air escaping the substrate through your wet basecoat by sealing off the floor.
- \* Apply thin coat 500 square feet per gallon (packaged in 1-gallon kits only)

Day 1: prep concrete, Apply primer coat of epoxy in a thin layer.

#### Step#2- HIGH BUILD SOLVENT-BASED EPOXY - 224HS

- \* 2-gallon kit of High Build Industrial-grade 77% Solids basecoat epoxy.
- \* A kit consists of 1 full gallon of part a (the pigment) and 1 full gallon of part b (the converter). When mixed becomes two gallons. (10 gallon kits available as well)
- \* Apply chips to desired broadcast into the wet epoxy, applying epoxy by roller & brush in strips starting at furthest point from exit. It is best to work wet epoxy from one side of the room to the other, working toward the exit 4ft.-6ft. at a time (or as far as you feel comfortable to still get an even broadcast of chips).
- \* Standard colors are light gray, slate gray, charcoal gray, beige, taupe, wheat, tile red, or black. Custom tint colors available at no additional charge.
- \* Each 2-gal kit will cover up to 400 sq. ft  
(thinning with Xylene allows 224 to go much further and allows for easier application - HIGHLY RECOMMENDED)

Day 2: Apply epoxy basecoat and disperse color chips.

#### Step#3- Original Color Chips™ HIGH PERFORMANCE URETHANE CLEARCOAT - UV-RESISTANT HPU 747

- \* 1.5 -gallon kit of Aliphatic Polyurethane industrial grade 54% solids clear topcoat (15-gallon kits also available)
- \* Apply HPU in a thin coat by roller & brush, making sure always to back-roll in the same direction to minimize the possibility of roller marks in the sheen.
- \* If non-skid is needed, broadcast non-skid aggregate similarly to how chips are disbursed. Make sure to back-roll all non-skid areas AFTER non-skid is broadcast to seal it in and promote vanishing of non-skid aggregate into clearcoat.
- \* Excellent chemical and abrasion resistance.
- \* Each 1.5 gallon kit will cover 500 sq. ft.

Day 3: apply urethane Clearcoat.

Foot traffic in 24 hours, vehicle traffic in 5 days

## System #3

### 100% SOLIDS EPOXY COATING

NO CHIPS / SOLID COLOR

(Ideal for commercial applications, hi-lo traffic, warehouse, offices, shops, heavy duty garages, etc.)

**2-DAY  
PROCESS**

#### Step#1- SLOW DRY PRIMER/SEALER Preprime 167 Penetrating Coat

- \* High Performance, two component 100% solids penetrating sealer.
- \* Apply pre-prime in a thin coat by roller & brush (when properly applied, the concrete looks like it has merely had water rolled onto it) to successfully and deeply penetrate the concrete and seal the pores, providing maximum “grab” into the substrate.
- \* Eliminates “pinholes” caused by air escaping the substrate through your wet basecoat.
- \* Apply at 500 square feet per gallon in a very thin coat

Day 1: prep concrete, Apply primer coat of epoxy in a thin layer.

#### Step#2- Original Color Chips™ NORGLAD 200 - 100% SOLIDS COLORED EPOXY

- \* 3-gallon kit of 100% solids epoxy. \* 15-gallon kits available as well
- \* Squeegee applied, and then use a roller to backroll for uniform coverage. Material will self-level to a glass-like appearance if applied thick enough. Apply chips to desired broadcast into the wet epoxy, applying epoxy by squeegee, roller, & brush in strips starting at furthest point from exit. It is best to work wet epoxy from one side of the room to the other, working toward the exit 4ft.-6ft. at a time (or as far as you feel comfortable get an even broadcast of chips).
- \* Each 3 gallon kit will cover 300 sq. ft. at 16 mils thick

Day 2: Apply epoxy with squeegee and backroll.

### System #4

#### 100% SOLIDS EPOXY COATING

#### FULL BROADCAST COLOR CHIP APPLICATION

extremely durable, terrazzo-style flooring

(Ideal for residential or commercial applications; hi-lo traffic, warehouses, garage, offices, shops, etc.)

UV-Stability is low on this product, do not use in direct sunlight

**2-DAY  
PROCESS**

#### **Step#2- Original Color Chips™ NORKLAD 100 - 100% SOLIDS CLEAR EPOXY**

- \* 3-gallon kit of 100% solids epoxy. \* 15-gallon kits available as well
- \* Squeegee applied, and then use a roller to backroll for uniform coverage. Apply chips in a full broadcast (10 lbs. per 100 sq/ft into the wet epoxy, applying epoxy by squeegee, then backrolling. Starting at furthest point from exit. It is best to work wet epoxy from one side of the room to the other, working toward the exit 4ft.-6ft. at a time (or as far as you feel comfortable to still get an even broadcast of chips).
- \* apply epoxy basecoat epoxy with squeegee coat at 150 sq/ft per gallon

Day 1: Apply epoxy basecoat and disperse color chips to rejection

#### **Step#3- Original Color Chips™ NORKLAD 100 - 100% SOLIDS CLEAR EPOXY**

- \* 3-gallon kit of 100% solids epoxy. \* 15-gallon kits available as well
- \* Squeegee applied, and then use a roller to backroll for uniform coverage. Material will self-level to a glass-like appearance.
- \* If non-skid is needed, broadcast non-skid aggregate similarly to how chips are disbursed. Make sure to back-roll all non-skid areas AFTER non-skid is broadcast to seal it in and promote vanishing of non-skid aggregate into clearcoat.
- \* industry standard self-leveling epoxy used on warehouse floors etc.
- \* each 3 gallon kit will cover 350-400 sq. ft.

Day 2: After scraping the excess chips, and thoroughly sweeping apply clear topcoat

### System #5

#### HYBRID SYSTEM

#### FULL BROADCAST COLOR CHIP APPLICATION

extremely durable, terrazzo-style flooring, UV-Stable Clearcoat, walk on in 1-2 hours

exhibits exceptional adhesion qualities, plus durability and UV stability that is unmatched in any of our other systems

(Ideal for residential or commercial applications; hi-lo traffic, warehouses, garage, offices, shops, etc.)

**1-DAY  
PROCESS  
(12 HOURS)**

#### **Step#1- NORKLAD 400 BREATHABLE FLOOR COATING- considered NO-PREP product**

- \* Heavy-duty NO LATEX waterborne epoxy
- \* Virtually odorless; safe to use anywhere
- \* Exceptional bond to dry OR wet concrete
- \* Apply chips in full broadcast (10 lbs per 100 sq/ft)
- \* Packaged in 1 gallon or 4-gallon kits, apply @ 200 sq/ft per gallon
- \* Clear product is used considering a full broadcast of chips are used for color

Step 1: Apply your Basecoat and chips in a full broadcast.

#### **Step#2- Original Color Chips™ HPPC - HIGH PERFORMANCE POLYASPARTIC**

- \* HPPC is a two component 100% solids polyaspartic aliphatic urethane seamless binder for broadcast systems. HPPC has excellent chemical resistance, hardness, abrasion resistance, UV stability and has an excellent clear gardner color. However, the outstanding feature of this product is its exceptionally quick tack free time of around 1-2 hours for foot traffic while providing the applicator about a 1/2 hour pot life to work with the material.
- \* Recommended for areas where a high build broadcasted floor is desired and installation downtime is very limited. This material can also be applied over a broadcasted or toweled system as a thin to medium build sealer.

Step 2: After waiting for the basecoat to harden sufficiently (8-12 hours), scrape excess chips off, and apply your Clearcoat.

Systems can be mixed and matched depending on project variances. Please contact the Original Color Chips for additional assistance.

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