

CRP Epoxy Color Flake

(100% Solids) Decorative Color Flake Epoxy Coating
Technical Data Sheet

1.) PRODUCT DESCRIPTION

A) Composition

CRP Epoxy Color Flake is a multi-component, decorative, multi-colored, seamless, high build epoxy flooring system that consists of a bond coat and base coat of modified bisphenol A pigmented epoxy resin, cross linked with a cycloaliphatic amine curing agent providing a glossy, blush free cure and matrix resin, in to which colored synthetic flakes are broadcast into. Epoxy Color Flake provides a balance of characteristics with a decorative esthetic appearance in a functional, seamless, durable poured in placed chemical resistant floor coating. It has excellent cleanability and abrasion resistance, resists attack from a wide range of chemical reagents and is V.O.C. compliant. It is available in 7 pigmented standard background colors plus 40 standard vinyl chip/flake colors. It may also be incorporated with metallic or silicate aggregates to produce a wide range of slip retardant profiles. Selection of texture and profile are balanced with the desired slip-resistance, cleaning characteristics and the appropriate esthetics for the area use.

B) Typical Uses

CRP Epoxy Color Flake is used as flooring in automobile service bays and garages, laboratories, food service areas, locker and rest rooms, hospitals, retail spaces and show rooms etc. It may also be used in conjunction with membranes to provide a positive side waterproofing and crack isolation membrane in suspended slab applications.

C) Advantages - Limitations

Advantages

1. Excellent cleanability and abrasion resistance.
2. Available in 7 standard base coat colors and 40 flake colors.
3. Complies with VOC regulations.
4. Suitable for many chemical environments.
5. Low maintenance and life expectancy costs.
6. May be incorporated with a slip-retardant aggregate.
7. Durable and long lasting.
8. May be applied over a wide range of surfaces.

Limitations

1. Substrate must be above 55°F (14°C), clean, dry and free of excessive moisture vapor emissions with relative humidity below 85%.
2. Moving cracks in concrete may reflect through finish.

2.) PHYSICAL CHARACTERISTICS AND TECHNICAL DATA

A) System thickness

26-32 mils

B) Pencil Hardness

(ASTM-3363) 4H

C) Impact Resistance

(ASTM D-2794)

Direct - >68 in./lbs.

Reverse->8 in./lbs.

D) Compressive Strength

(ASTM C-579) 10,500 psi.

E) Chemical Resistance

(ASTM D-1308)

F) Shore D Hardness

(ASTM 2240) Shore D 80

G) Adhesion

(ASTM C-882, Type1)

375 psi. Complete concrete failure

H) Elongation

(ASTM 522-88) >5 .%

Gasoline No Effect

Motor Oil No Effect

Coffee No Effect

Sodium Hydroxide 5 % No Effect

Hydraulic fluid No Effect

Urine No Effect

Citric Acid 70% No Effect

10% Acetic Acid No Effect

Industrial Paint Striper Film destroyed

Benzyl Alcohol Film Softened

10% Sulfuric Acid No Effect

Hydrochloric Acid 20% No Effect.

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3.) Installation

- A) Prepare surface by careful and thorough removal of laitance, grease, and foreign matter.
- B) Apply epoxy primer coat, filling existing cracks or voids in the concrete. Note: if needed apply semi-ridged epoxy joint filler to cracks and control joints.
- C) Spread CRP Epoxy body coat by squeegee and back roll to achieve a uniform film build and desired mil thickness approximately 8-10 mils. While body coat is still wet broadcast colored flake to desired coverage rate and allow surface to dry.
- D) Scrape off loose flakes and coat entire surface one to two times with a uniform 6 mil coat of CRP 'CRU' Clearseal.

4.) PRODUCT AVAILABILITY

Contact: Concrete Restoration Products

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Consult Concrete Restoration Products for specification assistance, detailing etc. This consultation is highly recommended.