Epoxy.com Product #315

Epoxy Multi-Colored Flake Floor Resurfacing System

GENERAL DESCRIPTION

Product #315 is a seamless, plural component, liquid applied, 100% solids polymeric colored flake floor resurfacing system with superior wear, and chemical resistance. Product #315 with "multi-colored" flakes produces a durable, easy to maintain floor, on both new and old surfaces.

APPLICATIONS

Aisle Ways
Assembly Plants
Bakeries
Basement Floors
Bottling Plants
Break Rooms
Cafeterias
Canning Plants
Car Washes
Cells
Church Floors
Classroom Floors
Corridors
Educational Facilities
Entrances
Food Plants
Health Care Facilities
Hospitals
Kennels
Kitchens
Laboratories
Law Enforcement Facilities
Laundries
Locker Rooms
Manufacturing Areas
Marine Surfaces
Meat Preparation Areas
Mortuaries
Nuclear Plant Floors
Offices
Photography Processing Areas
Power Plants
Printing Plants
Produce Preparation Areas
Pool Decks
Ramps
Research Facilities
Rest Rooms
Rest Area Buildings
Restaurants
Semiconductor Plants
Sewer Plants
Shop Floors
Shopping Centers
Shower Rooms
Store Floors
Show Rooms
Supermarkets
Veterinary Facilities
Water Plants
Warehouses
& many others

ADVANTAGES

LOW ODOR
STRONG YET RESILIENT
VARIABLE SURFACES FROM NON-SLIP TO SMOOTH
ABRASION RESISTANT

SURFACE PREPARATION

Surface must be clean and sound. Remove all dirt, laitance, grease curing compounds and other foreign matter by sandblasting, mechanical abrasion. If acid etching is used follow with abrasive or mechanical abrasion. Remove water and dust from all surfaces with an oil-free blast, or vacuum, immediately prior to application.

MIXING INSTRUCTIONS

Temperature of Product #315 must be 60 degrees F or above at time of mixing. Stir each component separately before blending. Mix two parts by volume of Part A with one part by volume of Part B for three minutes with a low speed electric drill motor equipped with a mixing paddle.

APPLICATION

BASECOAT: Product #315 can be applied with brush, roller, airless sprayer or squeegee. Apply a coat of #315 to surface to be finished, doing only a small area at a time, applying ESI™ Color Flakes to the surface of the wet resin. This can be done by hand or mechanical means. Make sure that the entire surface is completely covered (no shiny spots visible). Allow them to dry. Then remove excess Colored Flakes. Repeat this process a second time if a "three dimensional" effect is desired.

TOPCOAT:. Apply a squeegee, roll, or spray coating of clear #315 to the surface of the basecoat. If a smoother finish is required, the surface may be sanded and additional coat(s) of clear #315 applied.

LIMITATIONS

New concrete should be at least 28 days old. Temperature of substrate must be above 50 degrees F. DO NOT thin. For outdoor use contact Epoxy Systems, Inc. for technical assistance.

OPTIONAL FEATURES

INTEGRAL COVE BASE
MEDIUM, FINE, and SMOOTH TEXTURES

SAFETY PRECAUTIONS

Prolonged or repeated exposure may cause eye and skin irritation. If contact occurs, wash immediately and seek medical help. Use safety glasses with side shields and wear protective rubber gloves.

CLEANING

All tools and equipment should be cleaned before the system gels. Use MEK, Acetone, or any lacquer solvent.

APPLICATION PROPERTIES @77 DEGREES F

Viscosity (mixed) ..... 450 CPS
Pot Life (200 gr.) ..... 30 minutes
Cure Time (Walk-on Traffic)..... 24 hours
Cure Time (Truck Traffic) ..... 48 Hours
Final Cure ..... 7 Days
Packaging (unit size) ... 3 gal., 15 gal, and 45 gal. Units.

PHYSICAL PROPERTIES (neat)

Bond Strength (ASTM C-882) ..... 2110 psi
Flexural Strength (ASTM C-580-68)..... 6100 psi (7 days)
Compressive Strength (ASTM D-695) 11000
Absorption (ASTM D-570) 0.7%
Thermal Shock..... 40 Hrs @10 Degrees F., 3 Min. @ 212 Degrees F. shock water 33 Degrees F.
Hardness (Shore D)..... .....65 @ 24 Hours, 75 @ 7 days

For additional information please contact:

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CHEMICAL RESISTANT CHART

The following Resistance Guide will aid in determining the effect of various chemicals to Epoxy Systems'™ Product #315. Results are based on a 7 day spot chemical resistance test @ 77°F. A rating system for this guide is as follows:

0 - Excellent Resistance (Highly Recommended)
1 - Slight effect, some staining possible (Recommended)
2 - Swelling, softening or staining (Marginal)
3 - Poor or no resistance (Not Recommended)

A - Softening
B - Staining
X - No Resistance
B - Spills OK but not for immersion

Reagent	Conc.	Clear	Pigmented
ACIDS			
Acetic	5%	0	0
Acetic	10%	1	1
Acetic	20%	1	1
Acetic	Glacial	2	2
Citric	10%	0	0
Lactic	10%	1	1
Chromic	2%	1	1
Hydrochloric 10%	0	0	
Hydrochloric 37%	0	0	
Nitric	10%	2S	
Nitric	20%	2S	2S
	1	1	2S
Phosphoric 10%	2	2	
Phosphoric 35%	2S	2S	
Phosphoric 80%	30%	1	
Sulfuric	50%	1	1
Sulfuric	70%	2X	2
Sulfuric			3X
KETONE-ESTERS			
Acetone	100%	1B	1B
Methyl Ethyl Ketone	100%	0	1B
Ethyl Acetate 100%	0	0	
PM Acetate 100%	0	0	
SOLVENTS-CHLORINATED, AROMATIC, & MISC.			
Methylene Chloride	100%	3	3
1,1,1 Trichlorothane	100%	0	0
Perchloroethane	100%	0	0
SC-100	100%	0	0
Toluol	100%	0	0
Xylol	100%	0	1B
Butyl Cellosolve	100%	0	0
2-Nitropan	100%	0	0

SOLVENTS-ALIPHATIC &BRAKE-HYDRAULIC FLUIDS				
Gasoline		100%	0	0
Mineral Spirits		100%	0	0
Hexane		100%	0	0
A-1 Jet Fuel	100%	0	0	
Brake fluid-Auto		100%	1A	1A
HY-JET #3		100%	1A	2A
Skydrol 500A	100%	1A	1A	
Skydrol 500B	100%	1A	1A	
ALCOHOLS				
Ethyl Alcohol	100%	1B	1B	
Ethylene Glycol		100%	0	0
Isopropyl Alcohol		100%	0	0
Methyl Alcohol		100%	0	0
ALKALIZES AND SALTS				
Ammonium Hydroxide	10%	0	0	
Ammonium Hydroxide	20%	0	0	
Ammonium Hydroxide	50%	0	1	
Sodium Hydroxide	10%	0	0	
Sodium Hydroxide	50%	0	1	
Ammonium Nitrate	20%	0	0	
Calcium Chloride	20%	0	0	
Sodium Chloride	20%	0	0	
Calcium Chloride	20%	0	0	
Trisodium Phosphate	10%	0	0	
MISCELLANEOUS CHEMICALS				
Beer		100%	0	0
Catsup		100%	0	0
Cola		100%	0	0
Grease		100%	0	0
Milk		100%	0	0
Motor Oil		100%	0	1
Mustard		100%	0	0
Orange Juice	100%	0	0	
Sodium Hypochlorite		100%	0	1
Sugar		100%	0	0
Turpentine		100%	0	0

The product tested was mixed and applied to a water based "primed" panel in accordance to standard industry specifications and allowed to cure for a minimum of 7 days @ 77°F prior to testing.

The information contained herein, is to the best of our knowledge and belief, accurate, and is to be used as a guide to product selection. However, since the conditions of handling, installation and use are beyond our control, we make no guarantee of results. Where questions to resistance to a specific chemical spillage or durability of the product exists, a test application is always recommended.