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Chemical Resistant Epoxy Quartz Flooring

Seamless Resurfacing System

Epoxy.com Product #15

Best Clear Epoxy Material for Installing Seamless Epoxy Resin Flooring

For Colored Quartz Flooring Systems and for Sealing Acid Stained Concrete

GENERAL DESCRIPTION

Epoxy.com Product #15 Chemical Resistant Epoxy Resin Flooring / Floor Resurfacing System for Seamless Epoxy Quartz Flooring is a two component, seamless 100% solids clear epoxy flooring / floor resurfacing system with **High Chemical Resistance**. The epoxy may be applied as a coating, or combined with silica sand or **Epoxy.com multi-colored quartz aggregate** to produce a durable, easy to maintain floor, on both new and old surfaces.

Although **Epoxy.com Product #15 Epoxy Chemical Resistant Flooring Resurfacing System for Seamless Epoxy Quartz Flooring** is primarily used as a flooring and mortar resin is one of Epoxy.com's

most versatile products. It is also commonly used for resealing epoxy bonded stone, to seal acid stained floors and as a carbon composite and fiberglass layup resin.

APPLICATIONS

- Aisle Ways
- Assembly Plants
- Bakeries
- Basement Floors
- Bottling Plants
- Break Rooms
- Cafeterias
- Canning Plants
- Car Washes
- Cells
- Chemical Storage Areas
- Chemical Processing Areas
- Church Floors
- Classroom Floors
- Corridors
- Educational Facilities
- Entrances
- Epoxied Stone Recoating
- Food Plants
- Fork Lift Areas
- Health Care Facilities
- Hospitals
- Kennels
- Kitchens
- Laboratories
- Law Enforcement Facilities
- Laundries
- Leveling concrete
- Loading docks
- Locker Rooms
- Machine Shops
- Manufacturing Areas
- Marine Surfaces
- Meat Preparation Areas
- Mortuaries
- Nuclear Plant Floors
- Offices
- Patching concrete
- Photography Processing Areas
- Power Plants
- Printing Plants
- Produce Preparation Areas
- Pool Decks



Epoxy Product #15 over Color Quartz.



BROADCAST QUARTZ COLORS



POOL BLUE



SYMPHONY



WOODLANDS

When selecting the Broadcast Quartz blend for your application, please take time to carefully consider:

1. **APPEARANCE:** Light color blends tend to show more "shadow" than varied colors.

2. **TRAFFIC & MAINTENANCE:** Wheel marks and dirt naturally show up more on pale color blends than on varied ones.

3. **SPILLAGE:** What might be most commonly spilled on the floor? Consult your REPRESENTATIVE to determine the degree of chemical resistance you may require prior to selection of the system.

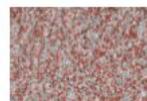
4. **CUSTOMIZED BLENDS:** We will customize broadcast quartz color blends to the client's specifications. Dry samples will be provided for prior approval. Minimum orders and a premium charge may be required. All customized blends may not be returned. An additional ten (10) working days will be required to match and produce customized colors.



SPEARMINT



BLUE SMOKE



RED TIDE



RED ROCK



AUTUMN



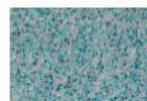
SALT & PEPPER



VT GRANITE



FIRE & ICE



TROPICAL WAVE



WINTER STORM



MIDNIGHT SKY



DESERT

We provide this color guide for preliminary color selection only. Please refer to a physical sample prior to making a final choice. Please contact your REPRESENTATIVE for assistance.

- Ramps
- Research Facilities
- Rest Rooms
- Restaurants
- Semiconductor Plants
- Sewer Plants
- Sealing "Epoxy and Stone" Decking
- Shop Floors
- Shopping Centers
- Shower Rooms
- Store Floors
- Show Rooms
- Supermarkets
- Veterinary Facilities
- Water Plants
- Warehouses
- [Wooden Floors](#)
- & many others

ADVANTAGES

- LOW ODOR
- CHEMICAL RESISTANT
- STRONG YET RESILIENT
- VARIABLE SURFACES FROM NON-SLIP TO SMOOTH
- ABRASION RESISTANT
- ZERO VOCs - MEETS EVEN THE STRICTEST LOW VOC REQUIREMENTS
- MEETS USDA STANDARD FOR USE IN FOOD HANDLING APPLICATIONS



*Epoxy.com Product #15 over Acid Stained Concrete Photo
Courtesy of AA Permacoat
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SURFACE PREPARATION

Surface to receive **Epoxy.com Product #15** **Epoxy Chemical Resistant Flooring Resurfacing System for Seamless Epoxy Quartz Flooring** 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. See [Epoxy.com Surface Preparation Guide](#) for more details.

MIXING INSTRUCTIONS

Temperature of **Epoxy.com Product #15 Epoxy Chemical Resistant Flooring Resurfacing System**

for **Seamless Epoxy Quartz Flooring** must be 65 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

Epoxy.com Product #15 Epoxy Chemical Resistant Flooring Resurfacing System for Seamless Epoxy Quartz Flooring can be applied with brush, roller, trowel, airless sprayer or squeegee. Apply a coat of #15 to surface to be finished, doing only a small area at a time. If anti-skid is required, (while epoxy is still wet) it may be broadcast with aggregate. 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 sweep off excess aggregate. Sand surface (if required) to desired texture. If broadcast with sand a top-coat over the entire surface.. For more information on installation please see:



*Epoxy.com Product #15 over acid stained concrete.
Photo Courtesy of Stephen Gaier
Used with Permission - All Rights Reserved*

- [Epoxy.com Product #15 with Colored Quartz Installation Guide - Single Broadcast](#)
- [Epoxy.com Product #15 with Colored Quartz Installation Guide - Double Broadcast Method](#)
- [Epoxy.com Installation Guide](#)

LIMITATIONS

New concrete to receive **Epoxy.com Product #15 Epoxy Chemical Resistant Flooring Resurfacing System for Seamless Epoxy Quartz Flooring** should be at least 28 days old. Temperature of substrate must be above 55 degrees F. DO NOT thin. For indoor use (except when used to seal [Epoxy.com Product #17](#) or similar product) contact Epoxy.com for technical assistance.

OPTIONAL FEATURES

- INTEGRAL COVE BASE
- AGGRESSIVE, MEDIUM, FINE, and SMOOTH TEXTURES
- FINALCOAT OF URETHANE FOR EXTENDED DURABILITY AND WEAR
- CLEAR, SOLID, OR MULTI-COLORED
- VARYING THICKNESS FROM 10 MILS TO 4 INCHES



*Rough Cut Reclaimed Barn board floor, after clear coating of Epoxy.com Product #15. **Click the picture above to see before and after pictures and a project description.** Used with Permission - All Rights Reserved*

- EPOXY.COM WARE CODED LAYERS

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°F

Mix Ratio	2:1 By Volume
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
VOC Content	0.0 lbs per Gallon (Zero VOC)
Packaging (unit size)	15 gal. Units (5 gal pails)

PHYSICAL PROPERTIES (neat)

Bond Strength (ASTM C-882)	2110 PSI
Flexural Strength (ASTM D-2240)	6075 PSI (7 days)
Compressive Strength (ASTM D-695)	9910
Absorption (ASTM D-570)	0.6%
Thermal Shock	40 Hr. @10° F., 3 Min. @ 212° F. Shock Water @ 33° F.
Hardness (Shore D)	65 @ 24 Hours, 75 @ 7 days

Estimating Coverage

For a 1/8 inch double broadcast system you can use the [material calculator](#) for Epoxy.com Product #15.

CHEMICAL RESISTANT CHART

Reagent	CHEMICAL TEST TIME MONTHS				
	1	3	6	9	12
WATER, DISTILLED	+	+	+	+	+
SEAWATER	+	+	+	+	+
SULFURIC ACID, 10%	+	+	+	S	S
SULFURIC ACID, 30%	+	+	S	-	-
SULFURIC ACID, 70%	+	S	-	-	-
HYDROCHLORIC ACID, 10%	+	+	+	+	+
HYDROCHLORIC ACID, 20%	+	+	+	+	+
HYDROCHLORIC ACID, 36%	+	+	+	+	+
HYDROCHLORIC VAPOR	+	+	+	+	+
ACETIC ACID, 5%	+	+	-	-	-
ACETIC ACID, 10%	-	-	-	-	-
AMMONIUM HYDROXIDE, 10%	+	+	S	S	-
AMMONIUM HYDROXIDE, 25%	+	S	-	-	-
SODIUM HYDROXIDE, 20%	+	+	+	+	+
ACETONE	-	-	-	-	-
BUTANONE	-	-	-	-	-
BUTYL ACETATE	+	+	S	S	S
DIACETONE ALCOHOL	+	+	+	+	+
CELLOSOLVE	S	S	S	S	S
ETHANOL, 50%	+	+	+	-	-
ETHANOL, 96%	-	-	-	-	-
OCTANOL	+	+	+	+	+
XYLENE	+	+	+	+	+
TOLUENE	+	+	+	+	+
BENZENE	+	+	S	S	S
SKYDROL	+	+	+	+	+
TRICHLOROETHYLENE E	+	+	S	S	S
CRUDE OIL	+	+	+	+	+
GASOLINE, 98 OCTANE	+	+	+	+	+
ACETAL GLACIAL	-	-	-	-	-
CITRIC 10%	+	+	+	+	+
CITRIC 50%	+	+	+	+	+
FATTY ACID (LINSEED)	+	+	+	+	+
LACTIC (DAIRY PRODUCTS)	+	+	+	+	+
NITRIC 10%	+	-	-	-	-
NITRIC 20%	+	-	-	-	-
NITRIC 30%	+	-	-	-	-
PHOSPHORIC	-	-	-	-	-

ALLYL CHLORIDE	+	S	S	S	S
CARBON TETRACHLORIDE	+	+	+	+	+
DIETHYLENE TRIAMINE	-	-	-	-	-
ETHYL ALCOHOL	-	-	-	-	-
ETHYLENE DIAMINE	-	-	-	-	-
FORMALDEHYDE	-	-	-	-	-
METHYL ETHYL KETONE	S	-	-	-	-
ISOPROPYL ALCOHOL	+	+	+	+	+
METHYL ISOBUTYL CARBINOL	+	+	+	+	+
METHYL ISOBUTYL KETONE	S	S	S	S	S
MINERAL SPIRITS	+	+	+	+	+
DETERGENTS ANIONIC 2%	+	+	+	+	+
CALCIUM HYPOCHLORITE 5%	+	+	+	+	+
SODIUM CHLORITE 25%	+	-	-	-	-
SODIUM HYPOCHLORITE 5%	+	-	-	-	-

STAIN RESISTANCE

BUTTER	+	+	+	+	+
CITRUS JUICES	+	+	+	+	+
COFFEE	+	+	+	+	+
COLA	+	+	+	+	+
GREASE	+	+	+	+	+
HAIR TONIC	+	+	+	+	+
INK	+	+	+	+	+
LARD	+	+	+	+	+
LIPSTICK	+	+	+	+	+
LIQUOR	+	+	+	+	+
MILK	+	+	+	+	+
MINERAL OIL	+	+	+	+	+
MUSTARD	+	+	+	+	+
VINEGAR	+	+	+	+	+

SANDBLASTED STEEL PANELS, COATED WITH AN AVERAGE OF 14 MIL FILM THICKNESS, IMMERSSED IN THE VARIOUS MATERIAL FOR UP TO ONE YEAR

+ = Resistant S= Softened -= Attacked

Material Certification of LEED Requirements

Epoxy.com a division of Epoxy Systems, Inc. certifies that Epoxy.com Product #15 meets or exceeds LEED requirements as summarized below:

LEED Credit IE 4.2:

Indoor Environmental Quality/Air Quality Before Occupancy Materials meet the requirement for VOC content Pertaining to LEED IEQ 402 Indoor Emitting Materials Credit. Refer to the individual product component technical data sheets and MSDS for further information.

Certificate of Origin

This product is made and or assembled in the USA.

Proper mixing and installation is critical to the optimal success of all products. See [Installation Tips](#), [Techdata](#), & [MSDS](#) for more details on our products. Be sure to contact us with any questions and/or concerns that you have.

For more information please contact:

Epoxy.com

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