



westcoat[®]
SPECIALTY COATING SYSTEMS

**PRODUCT
SPECIFICATION**

EC

EPOXY COAT
DURABLE RESINS & HARDENERS

EC-38 Liquid Dazzle[®] Epoxy

Description

Westcoat EC-38 Liquid Dazzle[®] is a two-component, 100% solids epoxy made with proprietary metallic additives that create an evolving drift dynamic in this unique epoxy. EC-38 is a decorative, glossy, durable, mar and chemical resistant coating. This highly decorative epoxy comes in many metallic colors.

Uses

EC-38 is primarily designed for use on concrete floors, tables and counter tops. Liquid Dazzle[®] Epoxy can be top-coated with a variety of sealers from high gloss to satin, as desired.

Advantages

USDA/FDA Compliant • 100% Solids • Durable • Chemical Resistant • Convenient 2:1 Mix • Seamless
• Variety of Colors • Low Odor • Decorative • Unique Effects

Product Data			
Packaging	1.5 gal & 15 gal kits available	Color	Bamboo, Cafe, Graphite, Jade, Marine, Pearl, Ruby, Sage, Sapphire, Silver, Sunset, Taupe, Topaz
Coverages	~50 ft ² / US gal. (As a Coating)	Mix Ratio	2:1 (By Volume)
VOC Content	<100 gm/l	Shelf Life	2 years in unopened packaging

Inspection

The surface must be structurally sound, clean, dry and free of grease, paint, oil, dust, curing agents, laitance or any foreign material that will prevent proper adhesion. The concrete should be at least 2,500 PSI and porous or rough enough to allow the product to soak in. A minimum of 28 days curing time is required on all concrete. Prior to starting work, test existing concrete slab for efflorescence, moisture and hydrostatic pressure.

Preparation

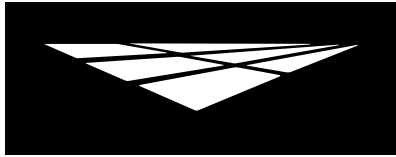
Please refer to desired System Specification Sheet for more information on preparation. Methods may vary according to the condition and hardness of the concrete. Other factors include the forecasted use of the surface and the environment in which it is to be installed. When preparing the surface use caution when shot blasting, scarifying too aggressively, leaving grind marks or grinding too smooth.

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1 of 4
EC-38 3/23



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Moisture

All concrete should be tested for moisture before applying a seamless coating. If moisture emissions exceed 5 lbs/1000 square feet/24 hours (ASTM F1869) or if the relative humidity (RH) exceeds 75% (ASTM F2170), contact the manufacturer before application.

Mixing

Premix each component separately. For color consistency, box all part A's. In a clean bucket, mix 2 parts A with 1 part B (by volume) of EC-38. Mix thoroughly with a low speed (200-300 rpm) drill motor for 4-5 minutes. Make sure to scrape the sides and bottom of the container during mixing. After mixing is completed, remove material from container within 5 minutes, as epoxy will begin to generate heat. Spread immediately onto the floor. As product is spread out, you will have longer working time (10-15 minutes at 70F degrees).

Thinning

Thinning of EC-38 is not recommended.

Coverage

Coverage will vary depending on condition of surface and desired thickness. As a coating: approximately 50 square feet per gallon.

Applying Product

Apply EC-38 with an 1/8 inch notched trowel, being sure to get even coverage over the entire floor, to achieve the published coverage rate. Back roll the EC-38 with a loop roller to create an even look. To help reduce the possibility of bubbles, you may use a porcupine roller at this stage of the application.

To avoid bubbles, best to apply EC-38 when temperature is dropping and in an area that is not in direct sunlight.

After loop and porcupine rolling, the dynamic drift begins to change the look of the coating. Please refer to desired System Specification Sheet for more information on applying the product.

Dry Time

You may apply a topcoat as soon as the surface is dry to touch or in about 8-10 hours, but no later than 24 hours. Light foot traffic may be permitted in 24 hours, heavy foot traffic in 48 hours and vehicle traffic in 3 days. All times are based on average temperature of 70F degrees and 50% humidity. Cooler temperatures will increase drying time.

Clean Up

Uncured material should be removed with an environmentally-safe solvent. Cured material should be removed mechanically.

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2 of 4
EC-38 3/23



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Limitations

- This product is designed for professional use only.
- Be sure to measure and mix properly. Be aware of the pot life of mixed epoxy.
- Be sure to patch and prime until the surface is smooth, even and very level.
- Do not apply when temperatures are below 50°F or above 90°F. Hot or cold weather will affect dry times.
- Epoxy must be cured for a minimum of 24 hours before coming in contact with water.
- For interior use only.
- Do not allow Westcoat products to freeze.

Health Precautions

Inhalation of vapor or mist can cause headache, nausea irritation of nose, throat, and lungs. Avoid breathing vapors, it is strongly recommended that respirators are worn. Prolonged or repeated skin contact can cause slight skin irritation. All epoxies have the potential of causing skin irritations or allergic reactions. Be careful not to get on skin, clothes or in eyes. Gloves are strongly recommended. If splashed in the eye, flush with warm water and contact a physician if blurring persists.

Slip Precaution

Westcoat Specialty Coatings Systems highly recommends the use of a slip-resistant additive to all coatings/systems that may be exposed to wet, oily, greasy or slippery conditions. It is the end user's responsibility to provide a flooring system that meets current safety standards. Westcoat and its distributors will not be responsible for injury incurred during a slip and fall incident. For the current coefficient of friction requirements, please consult your local building codes.

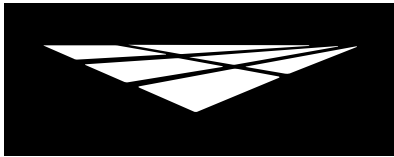
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3 of 4
EC-38 3/23



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Technical Data

Physical Properties

Chemical Composition	Bis A Epoxy Resin Crosslinked with Cyclo-aliphatic amines
Weight/gal (mix)	9.0
Gloss @60 Degree	102
Solids %/wt (mix)	100
Solids %/vol (mix)	100
Viscosity cPs (mix)	332
Viscosity KU (mix)	73
VOC gm/l (mix)	1.4
Shelf Life	2 years
Color (gardner)	NA

Chemical Resistance

	Pigmented
Muriatic Acid (31.5% HCL)	5
Sulfuric Acid (50% H2SO4)	5
Sulfuric Acid (93% H2SO4)	3s
Nitric Acid (10% HNO3)	5
Sodium Hydroxide (50% NaOH)	5
Bleach (sodium hypochlorite)	5
Vinegar (3-5% acetic acid)	5s
Transmission Fluid	5
Gasoline	5
Brake Fluid	5
409 Surface Cleaner	5
Pine Sol Solution	5
Blood & Body Fluids	5
Iodine Solution	5s
Mustard	5
Ketchup	5/5
Red Wine	5/5
Acetone	4
Methyl Ethyl Ketone (MEK)	5
Xylene	5
Ethanol	5
Methanol	5

Technical Data

Tack Free over concrete @72°F	4.75 hr.
Foot Traffic over concrete @72°F	7.75 hr.
Foot Traffic -sealed surface- @72°F	NA
Wheel Traffic	72 hr.
Pot Life (Gel Time) 150gm @72°F	45 min.
Heat Resistance (constant)	130°F
Heat Resistance (intermittent)	180°F
Adhesion on steel ASTM D3359	5
Adhesion on concrete ASTM D3359	5
Tensile Strength (ASTM D638)	4,500 psi
Tensile Elongation (ASTM D638)	5%
Compressive Strength (ASTM D695)	8,500 psi
Compressive Modulus (ASTM D695)	32,700 psi
Flexural Strength (ASTM D790)	9,600 psi
Flexural Modulus (ASTM D790)	315,000 psi
Impact Resistance in-lbs direct/reverse	14/1
Hardness Shore D (ASTM D2240)	74 (4 weeks)
Pencil Hardness	2H
Reducer/Clean Up	CA-23 or Acetone

Key:
 5 = Best (no effect)
 4 = Softens (recovers)
 3 = Softens (no recovery)
 2 = Blistered (no recovery)
 1 = Worst Destroyed
 s = With Stain
 * Contact time > 5hrs = 1

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4 of 4
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