westcoat®
SPECIALTY COATING SYSTEMS

PRODUCT SPECIFICATION

EC EPOXY COAT
DURABLE RESINS & HARDENERS

EC-84 Pebble Binder

Description
EC-84 Pebble Binder is a scientifically formulated, two component, 100% solids, high strength adhesive epoxy resin designed for the ultimate bonding of pebbles to structural substrates.

Uses
EC-84 is used primarily with pebbles to produce a decorative covering for patios, driveways, pool decks and walkways. By broadcasting dry silica sand over the installed pebbles, a skid resistant finish can be produced. EC-84 can be used for filling cracks in existing concrete and bonding many types of materials to each other. EC-84 can also be used as a general use, low cost epoxy option for priming or broadcasting and can also be used as a mortar for overlays or repairs for concrete.

Advantages
Exceptional Tensile Strength ▪ 100% Solids ▪ High Abrasion Resistance ▪ Chemical Resistant ▪ Convenient 2:1 Mix ▪ Durable High Gloss Finish ▪ Superior Anti-Chalking Inhibitors

Product Data			
Packaging	1.5 gal & 15 gal kits available	**Color**	Clear
Coverages	~50 ft² / 1.5 gal kit	**Mix Ratio**	2:1 (By Volume)
VOC Content	0 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
Surface must be properly prepared and primed as specified for system being installed. Please read appropriate System Specification Sheet for details.

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.

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Mixing
Pre-mix each component separately. In a clean bucket, mix 2 parts A with 1 part B (by volume) of EC-84, being sure to pour the part B into the part A. Mix thoroughly with a low speed (400-600 rpm) drill motor for 3-4 minutes. Make sure to scrape the sides and bottom of the container during mixing. After mixing is completed, remove from container within 5 minutes, as epoxy will begin to generate heat. Mix only that quantity which can be used in 20 minutes.

When used in the Epoxy Pebble System, combine the mixed EC-84 with clean, kiln dried river pebbles and mix in a cement mixer or by hand with a shovel for approximately 3 to 4 minutes or until all pebbles are thoroughly coated. It is recommended to use 1½ gallons of EC-84 with 200 pounds of ¼ x ⅝ inch pebbles. Smaller pebbles require more epoxy.

Thinning
Not recommended for initial application. When resealing, may be thinned up to 10% with CA-23 or Acetone.

Coverage
1½ gallons of mixed epoxy combined with 200 pounds of ¼ x ⅝ inch pebbles, will cover approximately 50 square feet. Coverage will vary depending on condition of surface, size of pebbles and desired thickness.

Applying Product
Rake the epoxy pebble mix so that the depth is ⅜ to ½ inch deep or approximately 3 to 4 pebbles thick. Use a standard concrete trowel (14 x 4 inch) to smooth the pebbles into a comfortable walking surface. Continue to trowel smooth and wipe trowel clean with solvent as needed. For skid resistant finishes, broadcast #30 silica sand over the pebbles.

When used to re-seal the Epoxy Pebble System, mix and roll on with a ¾ inch nap roller, at the rate of 250-300 square feet per 1.5 gallon kit.

Dry Time
Allow 24 hours for light foot traffic and 72 hours for heavy or vehicular traffic.

Clean Up
Uncured material can be removed with solvent. Cured material can only be removed mechanically or with an environmentally-safe solvent.

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Limitations
- This product is designed for professional use only.
- Be sure to do adequate surface preparation.
- Be sure to measure and mix properly. Be aware of the pot life of mixed epoxy.
- Do not apply when temperatures are below 50°F or above 90°F. Hot or cold weather will affect dry times.
- Do not dilute.
- Epoxy will amber, especially in the sun.
- Please check with local laws governing the use of solvents.
- 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.

Solvent based products are extremely flammable, extinguish all pilot lights and sources of ignition such as electrical motors. Be sure to have adequate cross ventilation prior to installing.

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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Technical Data

Physical Properties

Chemical Composition	Bis A Epoxy Resin Crosslinked with modified Amidoamine
Weight/gal (mix)	9.0
Gloss @60 Degree	99
Solids %/wt (mix)	100
Solids %/vol (mix)	100
Viscosity cPs (mix)	1241
Viscosity KU (mix)	93
VOC gm/l (mix)	0
Shelf Life	2 years
Color (gardner)	2

Technical Data

	Clear
Tack Free over concrete @72°F	4.25 hr.
Foot Traffic over concrete @72°F	10.5 hr.
Foot Traffic -sealed surface- @72°F	12 hr
Wheel Traffic	72 hr.
Pot Life (Gel Time) 150gm @72°F	60 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)	8,800 psi
Tensile Elongation (ASTM D638)	3%
Compressive Strength (ASTM D695)	12,000 psi
Compressive Modulus (ASTM D695)	52,000 psi
Flexural Strength (ASTM D790)	9,000 psi
Flexural Modulus (ASTM D790)	315,000 psi
Impact Resistance in-lbs direct/reverse	Not Tested
Hardness Shore D (ASTM D2240)	84 (4 weeks)
Pencil Hardness	2H
Reducer/Clean Up	CA-23 or Acetone

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)	5
Transmission Fluid	5
Gasoline	5
Brake Fluid	5
409 Surface Cleaner	5
Pine Sol Solution	5
Blood & Body Fluids	5
Iodine Solution	5
Mustard	5
Ketchup	5/5
Red Wine	5/5
Acetone	5
Methyl Ethyl Ketone (MEK)	5
Xylene	5
Ethanol	5
Methanol	5

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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