



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.

Advantages

- Exceptional Tensile Strength
- Superior Anti Chalking Inhibitors
- High Abrasion Resistance
- Durable High Gloss Finish
- Chemical Resistant

Packaging

1 ½ and 15 gallon kits

INSPECTION / PREPARATION

Inspection

Surface must be structurally sound, dry, and free of oil, grease, curing agents, dirt, dust or other foreign material that may prevent proper adhesion. Surface must be rough or porous.

Preparation

Surface must be properly prepared as specified for system being installed, please read individual System Specification Sheet for details.

APPLICATION

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 dry 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 recommend to use 1 ½ gallons of EC-84 with 200 lbs. of ¼ x 5/16 inch pebbles. Smaller pebbles require more epoxy.

Thinning

Not recommended for initial application.

When resealing, may be thinned up to 10% with PCBTF or Acetone.

Coverage

1 ½ gallons of mixed epoxy combined with 200 lbs. of

¼ inch x 5/16 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 3/8 inch - 1/2 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 ¼ inch nap roller at the rate of 250-300 square feet per gallon kit.

Dry Time

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

Clean Up

Uncured material should be clean up with solvent. If cured, material can only be removed mechanically or with an environmentally-safe solvent.

LIMITATIONS

- This system 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 in temperatures below 50°F or above 90°F. Hot or cold weather may effect dry times.
- Do not dilute.
- Use only clean, oven-dried pebbles
- Do not allow any Westcoat products to freeze.
- Epoxy will amber, especially in the sun.

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.

DISCLAIMER

PURCHASER'S SOLE AND EXCLUSIVE REMEDY AGAINST THE MANUFACTURER OF WESTCOAT, SHALL BE LIMITED SOLELY TO THE REPLACEMENT

OF ANY DEFECTIVE MATERIAL OR A PAYMENT BY THE MANUFACTURER IN AN AMOUNT EQUAL TO THE COST OF THE ORIGINAL MATERIAL.

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	1 year
Color (gardner)	2

Technical Data

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	1 hr.
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)	6000 psi
Tensile Modulus (ASTM D638)	290,000 psi
Tensile Elongation (ASTM D638)	7%
Compressive Strength (ASTM D695)	8,500 psi
Compressive Modulus (ASTM D695)	300,000 psi
Flexural Strength (ASTM D790)	9,000 psi
Flexural Modulus (ASTM D790)	315,000 psi
Impact Resistance in-lbs direct/re-	Not Tested
Hardness Shore D (ASTM D2240)	84
Pencil Hardness	2H
Reducer/Clean Up	Acetone or PCBTF

Chemical Resistance

	Clear & Pigmented
Muratic 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



westcoat

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