



**EC**

**EPOXY COAT**  
DURABLE RESINS & HARDENERS

## Epoxy Stone

### Description

The **EC-84** Stone Binder System is a scientifically formulated, two-component, 100 % solid (no solvent) high strength adhesive epoxy resin designed for the ultimate bonding of pebbles to structural substrates.

- High Abrasion Resistance
- Extra UV Inhibitors
- Durable High Gloss Finish
- Chemical Resistant
- Designs Available

### Uses

The **EC-84** Stone Binder System is used primarily with aggregate pebbles to produce a decorative covering for patios, driveways, pool decks, and walkways. By broadcasting dry silica sand over the installed pebbles, an anti-skid finish can be produced. **EC-84** can be used for filling cracks in existing concrete and bonding many types of materials to each other.

### Packaging

1½ and 15 gallon kits  
TC-55 River Rock 50 lb bag

Note: System components may vary, depending on desired result. See Application section for options.

Caution: Approval and verification of proposed colors, textures, and slip resistance is recommended.

### Advantages

- Exceptional Tensile Strength
- Superior Anti Chalking Inhibitors

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## INSPECTION / PREPARATION

### Inspection

Surface must be structurally sound. The surface must be dry and free of oil, grease, curing agents, dirt, dust or other foreign material that may prevent proper adhesion. The concrete should be porous and be able to absorb water. The surface must be porous or rough enough to allow the product to soak in.

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 around pools, scarifying too aggressively, or grinding too smooth.

### Preparation

Pre-cut and clean all cracks and joints with a concrete diamond blade to at least ¼ x ¼ inch. Prepare concrete to a profile equal to 30 or 50, grit sandpaper. You may mechanically profile by shot blasting, scarifying, water blasting. Methods may vary according to the thickness of the coating to be applied, and the condition and hardness

### Moisture

All concrete should be tested for moisture before applying a seamless coating. Water vapor transmission upwards through on-grade concrete slabs may result in loosening of epoxy floors or improper curing of epoxy materials. If moisture emissions exceed 4 lbs./1000 sq ft. contact the manufacturer before application.

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## APPLICATION

### Crack Filler

Mix 1 part A with 1 part B (by volume) of **EC-72** Epoxy Patch Gel (or **EC-74** Epoxy Patch Paste) for 3-4 minutes and apply to the crack using a trowel or putty knife. Patch all spawls and cracks with **EC-72** or **EC-74**. The material may be slightly overfilled in the crack and sanded or ground smooth. If desired, use **EC-72** or **EC-74** to create cove/radius at the wall to deck transition. Cove may be created using cove tool. (See complete **EC-72** or **EC-74** Epoxy Patch Product Specification Sheets).

### Mixing

Pre-mix the A-Side and B-Side in their individual containers. Measure out 2 parts A to 1 part B (by volume) of the **EC-84**. Pour the resin into the hardener. Mix with a mechanical mixer at slow speed (400 600 rpm) for 2 to 5 minutes, until blend is uniform in color. Mix only that quantity which can be used in 20 minutes.

### Primer

For best results, apply **EC-11** Water-Based Epoxy as a primer. (See **EC-11** Product Specification Sheet for complete instructions.)

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 aggregate is thoroughly coated. It is recommend to use 1½ gallon of **EC-84** with 200 lbs. of ¼ x 5/16 inch pebbles. Smaller pebbles require more epoxy.

### Coverage

1½ gallons of mixed epoxy combined with 200 lbs. of ¼ inch x 5/16 inch aggregate will cover approximately 50 square feet. Coverage will vary depending on condition of surface, size of aggregate, and desired thickness.

### Applying Product

Rake the epoxy pebble mix so that their depth is 3/8 inch 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 wiping trowel clean with solvent as needed. For anti-skid finishes, broadcast 30 silica sand over the pebbles.

### Dry Time

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

### Topcoat

An additional topcoat may be applied the following day using EC-84. Mix and roll on with ¾ inch nap roller at the rate of 300-400 square feet per 1½ gallon kit.

### Clean Up

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

## MAINTENANCE

Clean as needed with TSP and water. Power wash as needed or at least annually. Re-glaze with epoxy at 300 sq. ft. per 1½ gallon kit every 2 to 3 years or as needed to avoid pebble loss.

## LIMITATIONS

- Do not apply at temperatures is below 50°F or above 90°F.
- Do not dilute.
- Use only clean, oven-dried aggregates
- Do not allow any Westcoat products to FREEZE.
- Be aware of the pot life.

## HEALTH PRECAUTIONS

Inhalation of vapor or mist can cause headache, nausea irritation of nose, throat, and lungs. 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. Glove and respirators are strongly recommended. Avoid breathing vapors. If splashed in the eye, flush with warm weather and contact a physician if blurring persists.

## 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.

## TECHNICAL DATA

Pot Life (3 oz.)	1 hr.
Viscosity (Bookfield)	2,400 cps.
Shore Hardness (ASTM D-2240)	79-81-D
Gel Time (5 mil)	6-8 hrs.
Tensile Strength (ASTM D-638)	6,000 psi.
Flexural Strength (ASTM D-790)	7,000 psi.
Compressive Strength (ASTM D-695)	6,500 psi.
Bond Strength (ASTM C-321) (24 hrs.)	6,00 psi.
Elongation (ASTM D-638)	22%
Water Absorption (24 hrs.)	0.2%
Shelf Life	2 yrs.



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