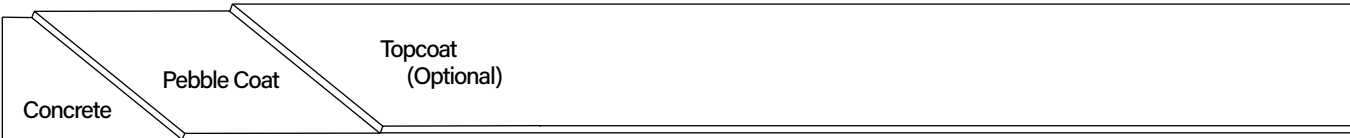# Epoxy Pebble

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

Uses
The Epoxy Pebble System is used primarily with small smooth pebbles to produce a decorative covering for patios, sun rooms, garages, walkways and game rooms. 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.

System Overview

Topcoat
(Optional)

Pebble Coat

Concrete

| System Data		
Coverages	**Pebble Coat**	**Optional Topcoat**
	50 ft² at ⅜ to ½ inch thickness per batch	300-400 ft² per gallon
		Shelf Life
Components	EC-72 Epoxy Patch Gel	2 years
	EC-84 Pebble Binder	2 years
	Pebbles (Available from Sheridan White Rock or various vendors)	

Advantages
Chemical Resistant ▪ 100% Solids ▪ Exceptional Tensile Strength ▪ Superior Anti-Chalking Inhibitors ▪ High Abrasion Resistance ▪ Durable High Gloss Finish ▪ Decorative

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.
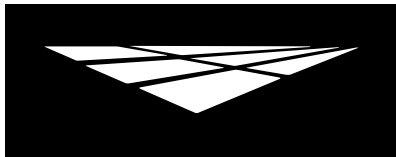
EC EPOXY COAT DURABLE RESINS & HARDENERS

Epoxy Pebble

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 CSP 3-5 as specified by ICRI. 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.

Moisture
All concrete should be tested for moisture before applying a seamless coating. If moisture emissions exceed 10 lbs/1000 square feet (ASTM F1869) or if the relative humidity (RH) exceeds 75% (ASTM F2170), contact the manufacturer before application.

Crack Treatment
Mix 1 part A with 1 part B (by volume) of EC-72 Epoxy Patch Gel together for 3-4 minutes and apply to the crack using a trowel or putty knife. Patch all spalls and cracks with EC-72 and allow to dry 2-3 hours before priming. The material may be slightly overfilled in the crack and when completely dry (in 4-6 hours) can be sanded or ground smooth. This remedial approach to patch cracks is not guaranteed and it should be noted that when the substrate moves, it could likely crack the Epoxy Pebble System.

Concrete Repair
For concrete that needs repairs beyond just dormant cracks, TC-23 Mortar Mix can be used. TC-23 is designed to be used as a general concrete repair mix for horizontal and vertical applications and can be used as a patching/underlayment material under most Westcoat systems. Please refer to the TC-23 Mortar Mix Product Specification Sheet for details.

Primer
Mix 2 parts A with 1 part B (by volume) of EC-84 Pebble Binder together for 3-4 minutes. For best penetration into concrete, thin by adding 1-2 quarts of Westcoat's CA-23 to each 1½ gallon kit. Thinned material must be applied at less than 5 mils. To cure properly, do not allow product to puddle. Immediately apply at a rate of 250-300 square feet per gallon, using a trowel or squeegee and then back roll to ensure complete coverage. Broadcast #20 silica sand into the wet EC-84.

Mixing
Pre-mix each component of the EC-84 Pebble Binder 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.
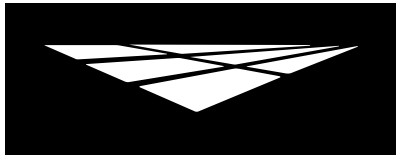Combine the mixed EC-84 with clean, kiln dried river pebbles and mix in a cement mixer (or by hand with a shovel) for approximately 3 to 4 minutes or until all pebbles are thoroughly coated. 1½ gallons of mixed EC-84 with 200 lbs of ¼ x ⁵⁄₁₆ inch pebbles will cover approximately 50 square feet. Coverage will vary depending on the condition of the surface, size of the pebbles and desired thickness.

Epoxy Pebble

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 spray trowel with water as needed. For skid resistant 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 of EC-84 may be applied when dry to the touch or within 24 hours. Mix and roll on the product with a ¾ inch nap roller at a rate of 300-400 square feet per 1½ gallon kit.

Optional Materials
Cement Options
  - TC-23 Mortar Mix may be used as a general concrete repair mix for horizontal and vertical applications and can be used as a patching/underlayment material.

Clean Up
Uncured material can be removed 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, at least annually. Re-glaze with EC-84 Pebble Binder at a rate of 300 square feet per 1½ gallon kit every 2 to 3 years or as needed to avoid pebble loss.

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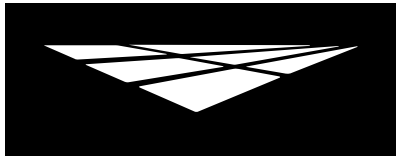
Solvent based products are extremely flammable. Extinguish all pilot lights and sources of ignition, such as electrical motors. Be sure to have adequate cross ventilation prior to installing.

Limitations

- This system is designed for professional use only.
- Read Product Specification Sheets for every product you will be using before beginning the project.
- Be sure to do adequate surface preparation.
- Be sure to measure and mix properly.
- All epoxy coatings will amber, fade and deteriorate in the sun. Suggested for use in areas without direct sunlight.
- Test for moisture in concrete and vapor drive.
- Be aware of the pot life of mixed material.
- Do not apply in temperatures below 50°F or temperatures above 90°F. Cooler temperatures will cause slower dry times.
- Use only clean, oven-dried pebbles.
- Approval and verification of proposed colors, textures and slip resistance is recommended.
- Do not allow Westcoat products to freeze.

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.