westcoat®
SPECIALTY COATING SYSTEMS

PRODUCT SPECIFICATION

EC EPOXY COAT
DURABLE RESINS & HARDENERS

EC-76 Cove Gel

Description
EC-76 Cove Gel is a low viscosity, two-component, 100% solids epoxy designed for cove applications. This pre-thickened epoxy is easy to measure and mix. It serves three functions of the cove process.

Uses
The EC-76 is designed for vertical cove applications. It can be used as a Tack Coat, an Aggregate Coat and a Fill Coat for TC-65 Quartz Sand, TC-73 Epoxy Mortar Sand, B-23 or silica sand. It provides medium-build, maximum toughness and excellent chemical resistance.

Advantages
Convenient Mixing ▪ 100% Solids ▪ High Build ▪ Chemical Resistant ▪ Convenient 2:1 Mix ▪ Moisture Tolerant ▪ Excellent Durability ▪ Easy to Use ▪ Dries Semi-Transparent

Product Data			
Packaging	1.5 gal & 15 gal kits available	**Color**	Clear
Coverages	~225-250 LF / US gal. (Tack Coat) ~80 LF / US gal. (Aggregate Coat) ~200-225 LF / US gal. (Fill Coat)	**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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Primer
Not required. The tack coat will act as a primer.

Mixing
In a clean and dry bucket, thoroughly mix 2 parts A and 1 part B (by volume) of EC-76. Combine using a mechanical mixer at low rpm. Mix slowly for at least 3 minutes or until completely combined. Only prepare the amount you can use in 20 minutes at 70F degrees.

Thinning
Thinning is not recommended.

Coverage
The coverage will vary depending on the process and cove height. Below are coverage rates determined for 6 inch cove.
- Tack Coat: 225-250 linear feet per gallon
- Aggregate Coat: 80 linear feet per gallon of EC-76, combined with TC-73 Epoxy Mortar Sand
- Fill Coat: 200-225 linear feet per gallon

Applying Product
Tack Coat: Immediately after mixing, apply the EC-76 to the wall, up to the cove cap and onto the floor 1 to 2 inches. Apply with a brush, trowel or putty knife. Be sure to completely coat the area to be coved. Immediately after applying the Tack Coat, move to the Aggregate Coat.

Aggregate Coat: Mix 48 ounces (by volume) of EC-76 and blend with approximately 25 pounds of TC-73 or equivalent aggregate or a 1½ gallon kit of EC-76 with 100 pounds of TC-73 or equivalent aggregate. A 1½ gallon kit of EC-76 with 100 pounds of TC-73 will yield approximately 120 linear feet for a six inch cove. With a mechanical mixer, mix until all aggregate is completely and evenly coated with EC-76. Apply the mixed aggregate with a trowel onto the wall, stopping at the cove cap. Smooth and finish the aggregate with a cove trowel, using water or solvent to lubricate the trowel. Let Aggregate Coat dry overnight and apply Fill Coat prior to topcoat.

When using 20-30 grit silica sand, resin must be increased. Mix approximately 75 pounds of aggregate with a 1½ gallon kit of EC-76.

Fill Coat: Mix 2 parts A and 1 part B by volume in a clean container. Apply EC-76 with a sponge float or brush onto the vertical surface to fill the aggregate prior to the clear or pigmented topcoat. Apply as thin as possible, smoothing out all brush or trowel marks. EC-76 can be sanded prior to topcoating, to ensure a smooth finish.

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Dry Time
Dry time is 4 to 5 hours. You may top coat over the EC-76 as soon as the material is tacky, but does not pull up.

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

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.
- 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 unless protected by a UV resistant coating.
- Solvents may be required in cooler weather to lower viscosity and increase coverage of 100% solids.
- 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 amine
Weight/gal (mix)	9.2
Gloss @60 Degree	100
Solids %/wt (mix)	N/A
Solids %/vol (mix)	N/A
Viscosity cPs (mix)	N/A
Viscosity KU (mix)	N/A
VOC gm/l (mix)	0
Shelf Life	2 years
Color (gardner)	N/A

Technical Data

Tack Free over concrete @72°F	4.25 hr.
Foot Traffic over concrete @72°F	7 hr.
Foot Traffic -sealed surface- @72°F	N/A
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
Hardness Shore D (ASTM D2240)	76 (4 weeks)
Reducer/Clean Up	CA-23 or Acetone