

EC-12 Epoxy Primer

Description

Westcoat EC-12 Epoxy Primer is a two component, 100% solids, low viscosity, moisture tolerant, fast drying, high strength and multi-purpose epoxy primer.

Uses

EC-12 is used to prime concrete, metal and wood, as well as many other existing coatings. It is an all-around concrete primer/sealer.

Advantages

USDA/FDA Compliant • 100% Solids • Low Viscosity • Chemical Resistant • High Build • Convenient 2:1 Mix • High Strength • Superior Adhesion

Product Data			
Packaging	1.5 gal & 15 gal kits available	Color	Black, Cape Cod Gray, Clear, Concrete Gray, Deep Tan, Pewter Gray, Safety Blue, Safety Green, Safety Red, Safety Yellow, Stone Gray, Travatan, Tile Red, White
Coverages	~300 ft ² / US gal.	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

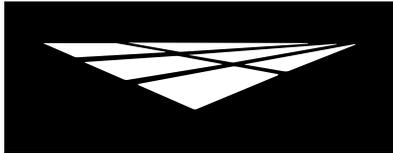
Please refer to desired System Specification Sheet for more information on preparation. Methods may vary according to the condition and hardness of the concrete. Other factors include the forecasted use of the surface and the environment in which it is to be installed. When preparing the surface use 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 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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SPECIALTY COATING SYSTEMS

**PRODUCT
SPECIFICATION**

EC

EPOXY COAT
DURABLE RESINS & HARDENERS

EC-12 Epoxy Primer

Mixing

Premix each component separately. For color consistency, box all part A's. In a clean bucket, mix 2 parts A with 1 part B (by volume) of EC-12. 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 material from container within 5 minutes, as epoxy will begin to generate heat. Spread immediately onto the floor. As product is spread out, you will have longer working time (10-15 minutes at 70F degrees).

Thinning

EC-12 may be thinned with 1-2 quarts of Westcoat's CA-23 or acetone per 1-½ gallon kit, for deeper penetration into the concrete substrate. If thinned, material must be applied at less than 5 mils (WFT) to avoid solvent entrapment and to cure properly. Do not allow material to puddle.

Coverage

EC-12 covers up to 300 square feet per gallon under normal conditions, which will achieve 5.2 dry mils. EC-12 may be applied at a heavier rate to achieve a higher build system or to accommodate the broadcasting of aggregates.

Applying Product

As a primer, immediately after mixing, spread a strip of the batch onto the surface along the edges where it will be cut in using a brush. Pour the remaining material near the cut in area and spread evenly using a trowel or squeegee and back roll using a ¼ inch nap non-shedding roller.

As an intermediate coat, mix and apply without solvent at the desired thickness using a notched trowel or squeegee and backroll. The addition of silica flour or silica sand will add body and help to build up more cost effectively. Please refer to desired System Specification Sheet for more information on applying the product.

Dry Time

You may re-coat as soon as the surface is dry to touch or in about 4-8 hours (but not later than 24 hours). Light foot traffic may be permitted in 8-10 hours, light vehicle traffic in 48 hours, heavy traffic in 3 days. All times are based on average temperature of 70F degrees and 50% humidity. Cooler temperatures will increase drying time.

Clean Up

Uncured material should be removed with an environmentally-safe solvent. Cured material should be removed mechanically.

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EC-12 3/23



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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.
- Skid resistant additives are available, such as CA-30 or CA-31.
- 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

Chemical Resistance

	Clear & 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
Isopropyl Alcohol (99%)	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	5s
Mustard	5/5s
Ketchup	5/5
Red Wine	5/5
Acetone	5
Methyl Ethyl Ketone (MEK)	5
Xylene	5
Ethanol	5
Methanol	5

Physical Properties

Chemical Composition	Modified Bis A Modified Amidoamine	
	Clear	Pigmented
Weight/gal (mix)	9.0	10.2
Gloss @60 Degree	118	110
Solids %/wt (mix)	100	100
Solids %/vol (mix)	100	100
Viscosity cPs (mix)	800	1000
Viscosity KU (mix)	65	70
VOC gm/l (mix)	0	0
Shelf Life	2 years	2 years
Color (gardner)	3	NA

Key:

5 = Best (no effect)
4 = Softens (recovers)
3 = Softens (no recovery)
2 = Blistered (no recovery)
1 = Worst (destroyed)
s = Stains but resists degradation

Testing done per ASTM D1308

All Single Numbers = 2 hr Contact time

All Multiple Numbers Separated by a Slash = 2 hr contact time / 24 hr contact time

Technical Data

	72°F	72°F	52°F	52°F
	Pigmented	Clear	Clear	Clear Fast Cure
Tack Free over concrete	5 hr. @ 72°F	4 hr. @ 72°F	9 hr. @ 52°F	5 hr. @ 52°F
Foot Traffic over concrete	7 hr. @ 72°F	7.5 hr. @ 72°F	>24 hr. @ 52°F	8 hr. @ 52°F
Foot Traffic - sealed surface	8.25 hr @ 72°F	8.75 hr. @ 72°F	>24 hr. @ 52°F	9 hr. @ 52°F
Wheel Traffic	72 hr. @ 72°F	72 hr. @ 72°F	72 hr. @ 52°F	72 hr. @ 52°F
Pot Life (Gel Time) 150gm	32 min. @ 72°F	32 min. @ 72°F	50 min @ 52°F	12 min. @ 52°F
Heat Resistance (constant)	130°F	130°F	130°F	130°F
Heat Resistance (intermittent)	180°F	180°F	180°F	180°F
Adhesion on steel ASTM D3359	5	5	5	5
Adhesion on concrete ASTM D3359	5	5	5	5
Tensile Strength (ASTM D638)	5,500 psi	5,700 psi	5,700 psi	5,700 psi
Tensile Elongation (ASTM D638)	6%	6%	6%	6%
Compressive Strength (ASTM D695)	9,200 psi	10,100 psi	10,100 psi	10,100 psi
Flexural Strength (ASTM D790)	6,100 psi	6,500 psi	6,500 psi	6,500 psi
Impact Resistance in-lbs direct/reverse	Not Tested	15/2	15/2	15/2
Hardness Shore D (ASTM D2240)	80	80	80	80
Pencil Hardness	2H	2H	2H	2H
Reducer/Clean Up	CA-23 or Acetone	CA-23 or Acetone	CA-23 or Acetone	CA-23 or Acetone

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