



westcoat[®]
SPECIALTY COATING SYSTEMS

**PRODUCT
SPECIFICATION**

EC

EPOXY COAT
DURABLE RESINS & HARDENERS

EC-11 Water-Based Epoxy

Description

EC-11 Water-Based Epoxy is a premium quality two-component, chemical resistant, long pot life epoxy coating. It provides epoxy toughness, medium gloss and durability, with the convenience of a water-based system.

Uses

EC-11 is designed to be used on concrete, metal, masonry or wood where a tough, chemical resistant finish is needed. EC-11 is recommended for use as a medium duty concrete sealer for interior floors. EC-11 may also be used as a primer under many Westcoat Systems.

Advantages

USDA/FDA Compliant • Water-Based • Moisture Tolerant • Chemical Resistant • Long Pot Life
• Medium Gloss • Very Durable • Easy to Use • Very Fast Drying • No Induction Time

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	~300-600 ft ² / US gal.	Mix Ratio	2:1 (By Volume)
VOC Content	<25 gm/l	Shelf Life	3 years in unopened packaging
Certifications	VOC Emission Test Certificate - Certificate No: 190516-05		

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.

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.



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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 3-4 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. Please refer to desired System Specification Sheet for more information on preparation.

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.

Mixing

Premix each component separately. For color consistency, box all part B's (since the colorant is in the Part B on this product line). In a clean bucket, mix 2 parts A with 1 part B (by volume) of EC-11. 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 and spread onto the floor.

Thinning

Thin with water, up to 50%. Amount will vary depending on use.

Coverage

Will vary depending on the mil thickness applied and the porosity and texture of the surface, but in general, EC-11 will cover approximately 300-600 square feet per gallon as a primer, coating or sealer.

Applying Product

As a primer, spray or squeegee and backroll thinned EC-11 onto the surface. Primer coat should be applied evenly and worked into the surface to help seal and avoid pinholes. When thinned, apply EC-11 at a maximum of 5 mils. Do not allow material to puddle.

As a coating or sealer, apply EC-11 within 24 hours after the primer coat. Immediately after mixing, spread a strip of material 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. Depending on the look, thickness, chemical and abrasion resistance desired, 1 to 2 coats may be applied. Please refer to desired System Specification Sheet for more information on applying the product.

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Dry Time

You may re-coat as soon as the surface is dry to the touch in 1 to 4 hours, but no later than 24 hours. Light foot traffic may be permitted in 6 hours, normal traffic in 24 hours and vehicle traffic in 72 hours. 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 soap and warm water. Cured material should be removed mechanically or with an environmentally-safe solvent.

Limitations

- This product 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 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 as a primer or topcoat. Exterior use as a primer, if sheltered from UV.
- 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.

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	Waterborne Solid Epoxy Resin Dispersion	
	Clear	Pigmented
Weight/gal (mix)	9.0	10.1
Gloss @60 Degree	68	39
Solids %/wt (mix)	49	60
Solids %/vol (mix)	43	49
Viscosity cPs (mix)	223	400
Viscosity KU (mix)	53	63
VOC gm/l (mix)	3.1	5.4
Shelf Life	3 years	3 years
Color (gardner)	NA	NA

Chemical Resistance

	Clear & Pigmented
Muriatic Acid (31.5% HCL)	2
Sulfuric Acid (50% H2SO4)	4
Sulfuric Acid (93% H2SO4)	1
Nitric Acid (10% HNO3)	2
Sodium Hydroxide (50% NaOH)	5
Bleach (sodium hypochlorite)	5
Vinegar (3-5% acetic acid)	2
Transmission Fluid	5
Gasoline	5
Brake Fluid	5
409 Surface Cleaner	5
Pine Sol Solution	5
Blood & Body Fluids	5
Iodine Solution	5
Mustard	5/5s
Ketchup	5/5
Red Wine	5/5
Acetone	4
Methyl Ethyl Ketone (MEK)	5
Xylene	5
Ethanol	5
Methanol	5

Technical Data

	Clear	Pigmented
Tack Free over concrete @72°F	1 hr.	45 min.
Foot Traffic over concrete @72°F	2 hr.	1.5 hr.
Foot Traffic -sealed surface- @72°F	5 hr.	3.25 hr
Wheel Traffic	72 hr.	72 hr.
Pot Life (Gel Time) 150gm @72°F	60-90 min.	60-90 min.
Heat Resistance (constant)	180°F	180°F
Heat Resistance (intermittent)	220°F	220°F
Adhesion on steel ASTM D3359	5	5
Adhesion on concrete ASTM D3359	4	5
Impact Resistance in-lbs direct/reverse	50/4	50/4
Hardness Shore D (ASTM D2240)	79	79
Pencil Hardness	2H	2H
1/4 in Mandrel Bend	180°	180°
Reducer/Clean Up	Warm Soapy Water	

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

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