westcoat®
SPECIALTY COATING SYSTEMS

PRODUCT SPECIFICATION

EC EPOXY COAT
DURABLE RESINS & HARDENERS

EC-44 Flex Epoxy

Description
EC-44 Flex Epoxy is a two-component, 100% solids, medium viscosity, low odor, low VOC, flexible epoxy. EC-44 is designed to perform as a fluid proofing, waterproofing and crack isolation membrane for concrete or plywood substrates.

Uses
EC-44 is suitable for mechanical and equipment rooms, commercial kitchens, hospitals, bathrooms, clean rooms, shopping malls and on concrete substrates located above occupied spaces. EC-44 can also be used as a membrane underneath a variety of Westcoat's systems, including the Flex Epoxy System, when waterproofing, sound dampening and crack isolation attributes are required.

Advantages
USDA/FDA Compliant ▪ 100% Solids ▪ Flexible ▪ Chemical Resistant ▪ Convenient 2:1 Mix ▪ High Strength ▪ Pigmented ▪ Low Odor ▪ High Build ▪ Superior Adhesion

Product Data			
Packaging	1.5 gal & 15 gal kits available	**Color**	Cape Cod Gray or Deep Tan
Coverages	~50-80 ft² / 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.

Plywood must be a minimum of 1 inch thick or 2 sheets of at least ⅝ inch CDX or exterior grade plywood, but AC-X is preferred. The plywood must be glued and screwed and have a maximum joist span of 12 inches. The decks should meet local building codes. OSB is not recognized as a suitable substrate.

Preparation
lease 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.

On plywood, be sure the surface is clean, dry and free of grease, paint, oil, dust or any foreign material that may prevent proper adhesion. For more information on Substrates and Preparation, please refer to the Flex Epoxy System Specification.

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Moisture
All concrete should be tested for moisture before applying a seamless coating. If moisture emissions exceed 5 lbs/1000 square feet (ASTM F1869) or if the relative humidity (RH) exceeds 75% (ASTM F2170), please refer to the EC-15 Moisture Vapor Barrier Product Specification Sheet.

Primer
EC-12 Epoxy Primer should be used prior to applying EC-44 Flex Epoxy.

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-44. 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
Thinning is not recommended for this product.

Coverage
Coverage will vary depending on condition of surface and desired thickness. As a coating: 50-80 square feet per gallon.

Applying Product
As a coating, apply EC-44 within 24 hours after the primer coat. If delay occurs beyond 24 hours, it is recommended that the surface be sanded and wiped with denatured alcohol. Immediately after mixing, apply EC-44 with a squeegee and back roll with an epoxy rated, non-shedding, ⅜ inch nap roller cover. A two coat application of 50-80 square feet per gallon, per coat, is required for waterproofing requirements.

Dry Time
You may re-coat as soon as the surface is dry to touch or in about 5-8 hours. Light foot traffic may be permitted in 12-16 hours, normal traffic in 24 hours and vehicle traffic in 3 days. All times are based on average temperature of 72F 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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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.

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Technical Data

Physical Properties

Chemical Composition	Modified Bis A Modified Amidoamine
	Pigmented
Weight/gal (mix)	9.8
Gloss @60 Degree	88
Solids %/wt (mix)	100
Solids %/vol (mix)	100
Viscosity cPs (mix) @ 77°F	1360
Viscosity KU (mix) 77°F	95
VOC gm/l (mix)	0
Shelf Life	2 years
Color (gardner)	NA

Technical Data

	Pigmented
Tack Free over concrete @72°F	5 hr.
Foot Traffic over concrete @72°F	10 hr.
Foot Traffic -sealed surface- @72°F	12 hr
Wheel Traffic	72 hr.
Pot Life (Gel Time) 150gm @72°F	30 min.
Heat Resistance (constant)	130°F
Heat Resistance (intermittent)	180°F
Adhesion on steel ASTM D3359	5
Adhesion on concrete ASTM D3359	5
Tensile Strength (ASTM D638)	1500 psi
Tensile Elongation (ASTM D638)	65%
Impact Resistance in-lbs direct/reverse	Not Tested
Hardness Shore D (ASTM D2240)	50 (24 hours)
Pencil Hardness	NA
Reducer/Clean Up	Acetone or PCBTF

Chemical Resistance

	Pigmented
Muriatic Acid (31.5% HCL)	5
Sulfuric Acid (50% H2SO4)	3
Sulfuric Acid (93% H2SO4)	2
Nitric Acid (10% HNO3)	5
Sodium Hydroxide (50% NaOH)	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	4
Methyl Ethyl Ketone (MEK)	4
Xylene	5
Ethanol	5
Methanol	5

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