



westcoat[®]
SPECIALTY COATING SYSTEMS

**PRODUCT
SPECIFICATION**

EC

EPOXY COAT
DURABLE RESINS & HARDENERS

EC-36 100% Solids Epoxy

Description

EC-36 100% Solids Epoxy is a two-component, medium viscosity, low odor, high-build, chemical resistant epoxy. It is packaged as a Clear (Neutral Base) Epoxy and can be used as either a clear epoxy topcoat or it can be combined with CA-36 Epoxy Color Pack to create a pigmented epoxy, to the desired color of choice.

Uses

EC-36 100% Solids Epoxy is used to create industrial seamless floors in manufacturing plants, mechanical warehouses, industrial kitchens and garages. It can be used as a primer coat, filler coat, broadcast coat or topcoat. For smaller projects, EC-36 100% Solids Epoxy can be used in lieu of EC-32 and EC-36 100% Solids Epoxy plus the desired CA-36 Epoxy Color Pack can be used in lieu of EC-34.

Advantages

USDA/FDA Compliant • 100% Solids • Medium Viscosity • Chemical Resistant • Convenient 2:1 Mix • High Strength • Low Odor • High Build • Superior Adhesion • Clear or Can be Tinted with CA-36 Color Packs

Product Data			
Packaging	2 Gal Part A 1 Gal Part B	Color	Clear or Can be tinted with CA-36 Epoxy Color Pack
Coverages	~250-500 ft ² / US gal. (As a Primer) ~100-300 ft ² / US gal. (As a Coating)	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

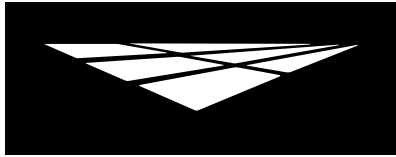
Please refer to desired System Specification Sheet for more information on preparation. Methods may vary according to the condition and hardness of the concrete. Other factors include the forecasted use of the surface and the environment in which it is to be installed. When preparing the surface use caution when shot blasting, scarifying too aggressively, leaving grind marks or grinding too smooth. For best results, EC-12 Epoxy Primer or EC-15 Moisture Vapor Barrier are recommended as a primer.

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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/24 hours (ASTM F1869) or if the relative humidity (RH) exceeds 75% (ASTM F2170), please refer to the EC-15 Moisture Vapor Barrier Product Specification Sheet.

Mixing

Premix each component separately. If tinting with CA-36 Epoxy Color Pack, add one 32 fluid ounce unit of CA-36 per 3 gallon kit of EC-36 Epoxy. Mix the entire contents of CA-36 into the EC-36 Part A and mix thoroughly, before combining the Part B. Add the EC-36 Part B into the same container. 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

As a primer: EC-36 may be thinned with 2-4 quarts of Westcoat's CA-23 or acetone per 3 gallon kit, for deeper penetration into the concrete substrate. If thinned, material must be applied at less than 5 mils (WFT) to cure properly. Do not allow material to puddle. Allow to fully cure, to avoid solvent entrapment.

As a Body, Mortar, Grout or Broadcast Coat: Thinning is not recommended.

As a Topcoat: Do not exceed thinning by 10%. If thinned, material must be applied thinly enough to avoid solvent entrapment and to cure properly.

Coverage

Coverage will vary depending on condition of surface, desired application and thickness. For use as a primer: 250-500 square feet per gallon. For use as a coating: 100-300 square feet per gallon.

Applying Product

As a primer, squeegee and backroll thinned EC-36 onto the surface. Primer coat should be applied evenly and worked into the surface to help seal and avoid pinholes. When thinned, apply EC-36 at a maximum of 5 mils (WFT). Do not allow material to puddle.

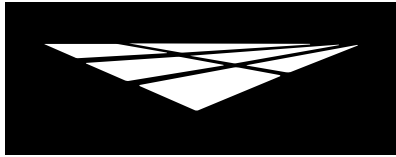
As a coating, apply EC-36 within 24 hours (at 72F degrees) after the primer coat. Immediately after mixing, spread a strip of material onto the surface along the edges where it will be "cut in" using a brush. Pour the remaining material near the "cut in" area and spread evenly using a trowel or squeegee and back roll using a 1/4 to 3/8 inch nap, non-shedding roller designed for use with epoxies. For thicker applications, a notched trowel or squeegee will help regulate the thickness and a porcupine roller will help to release trapped air and minimize bubbles. 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 touch or in about 8-10 hours. Light foot traffic may be permitted in 12 hours, normal traffic in 24 hours and vehicle 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.

Limitations

- Please refer to all related Product and System Specification sheets before application.
- This product is designed for professional use only.
- Test for moisture in concrete and vapor drive.
- Thinly applied coatings may not hide epoxy patches, rough concrete or shotblast tracks.
- Approval and verification of proposed colors, textures and slip resistance is recommended.
- 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

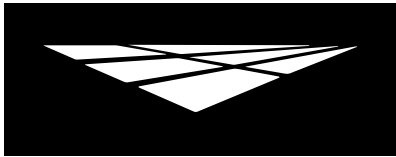
Westcoat Specialty Coatings Systems highly recommends the use of a slip-resistant additive to all coatings/systems that may be exposed to wet, oily, greasy or slippery conditions. It is the end user's responsibility to provide a flooring system that meets current safety standards. Westcoat and its distributors 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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Chemical Resistance

	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
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
	Pigmented
Weight/gal (mix)	9.8
Gloss @60 Degree	118
Solids %/wt (mix)	100
Solids %/vol (mix)	100
Viscosity cPs (mix)	450
Viscosity KU (mix)	65
VOC gm/l (mix)	0
Shelf Life	2 years
Color (gardner)	NA

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

Technical Data

	72°F	52°F	52°F
	Clear	Clear	Clear Fast Cure
Tack Free over concrete	5 hr. @ 72°F	10 hr. @ 52°F	4.5 hr. @ 52°F
Foot Traffic over concrete	8 hr. @ 72°F	>24 hr. @ 52°F	8 hr. @ 52°F
Foot Traffic -sealed surface	9 hr @ 72°F	>24 hr. @ 52°F	9 hr. @ 52°F
Wheel Traffic	72 hr. @ 72°F	72 hr. @ 52°F	72 hr. @ 52°F
Pot Life (Gel Time) 150gm	40 min. @ 72°F	55 min. @ 52°F	15 min. @ 52°F
Heat Resistance (constant)	130°F	130°F	130°F
Heat Resistance (intermittent)	180°F	180°F	180°F
Adhesion on steel ASTM D3359	5	5	5
Adhesion on concrete ASTM D3359	5	5	5
Tensile Strength (ASTM D638)	3,100 psi	3,100 psi	3,100 psi
Tensile Modulus (ASTM D638)	300,000 psi	300,000 psi	300,000 psi
Tensile Elongation (ASTM D638)	12%	12%	12%
Compressive Strength (ASTM D695)	11,200 psi	11,200 psi	11,200 psi
Flexural Strength (ASTM D790)	6,100 psi	6,100 psi	6,100 psi
Impact Resistance in-lbs direct/reverse	Not Tested	Not Tested	Not Tested
Hardness Shore D (ASTM D2240)	80 (4 weeks)	80 (4 weeks)	80 (4 weeks)
Pencil Hardness	2H	2H	2H
Reducer/Clean Up	CA-23 or Acetone	CA-23 or Acetone	CA-23 or Acetone

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