



EC

EPOXY COAT
DURABLE RESINS & HARDENERS

EC-32 High Build Clear Epoxy Topcoat

Description

Westcoat EC-32 High Build Clear Epoxy Topcoat is a two-component, 100% solids, high-build, high viscosity, cyclo-aliphatic, chemical resistant epoxy. This highly versatile epoxy coating has superior clarity.

Uses

EC-32 epoxy is used to create industrial seamless floors in manufacturing plants, mechanical rooms, warehouses, commercial kitchens, and residential garages. In combination with color chips or quartz sand it can be used to create a decorative floor coating. Westcoat EC-32 Epoxy (with aggregate) can also be used as a mortar for overlays or repairs for concrete. EC-32 Clear is an excellent high build concrete sealer for interior use over many other types of coatings such as Texture Crete or Acid Stained floors. EC-32 can be applied directly to the concrete without a special primer.

Advantages

- USDA & FDA Compliant
- 100% Solids
- High Viscosity
- Chemical Resistant
- High Strength
- Superior Clarity
- Durable yet Flexible
- Fast Drying
- High Build
- Superior Adhesion

Packaging

1½ and 15 gallon kits

Color

Clear

INSPECTION / PREPARATION

Inspection

Surface must be structurally sound, dry, and free of oil, grease, curing agents, dirt, dust or other foreign material that may prevent proper adhesion. Surface must be rough or porous.

Preparation

Surface must be properly prepared and primed as specified for system being installed, please read individual System Specification Sheet for details.

APPLICATION

Mixing

Premix each component separately. In a clean bucket, mix 2 parts A with 1 part B, by volume of EC-32. 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 70 degrees)

As a coating: 100-300 sq.ft. per gallon

As a sealer: 300-500 sq.ft. per gallon

As a mortar: 30-60 sq.ft. per gallon

Applying Product

As a primer, spray or squeegee and backroll thinned EC-32 onto the surface. Primer coat should be applied evenly and worked into the surface to help seal and avoid pinholes. When thinned, apply EC-32 at a maximum of 5 mils, do not allow material to puddle.

Thinning

EC-32 may be thinned with up to 100% (equal parts) acetone, by volume, if thinned it must be applied thinly enough to allow solvent to escape (minimum 300 sf per gallon).

As a primer: Up to 100% acetone

As a coating: 10-20% acetone

As a mortar: Thinning is not recommended

As a coating, apply EC-32 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 1/4" nap non-shedding roller. 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.

Coverage

Coverage will vary depending on condition of surface and desired thickness.

As a primer: 300-500 sq.ft. per gallon

As a sealer, EC-32 may be sprayed, brushed or rolled. If rolled, neatly cut-in all edges with a brush and roll the center using a 1/2 inch to 3/4 inch nap, good quality, roller. Be sure to spread evenly in a "V" pattern rolling in both directions, Roll product as thin as possible. If spraying, use a pump type or airless sprayer after thinning and be sure to spray evenly.

For an epoxy mortar: To create the mortar mix, combine mixed EC-32 with aggregate at a rate of 50-100 lbs per gallon, depending on aggregate and desired psi. Within 24 hours of priming, spread the prepared mortar mix evenly with a trowel, read Epoxy Mortar or Epoxy Mortar Quartz System Specification Sheet for details.

Dry Time

You may re-coat as soon as the surface is dry to touch or in about 8-10 hours, but no later than 24 hours. Light foot traffic may be permitted in 24 hours, heavy foot traffic in 48 hours, vehicular traffic in 72 hours. All times are based on average temperature of 70 degrees and 50% humidity.

Clean Up

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

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 in temperatures below 50°F or above 90°F. Hot or cold weather may effect dry times.
- Epoxy must be cured for a minimum of 24 hours before coming in contact with water.
- Skid resistant additives are available.
- 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.

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.

Physical Properties

Chemical Composition	Bis A Epoxy Resin Crosslinked with cyclo aliphatic amines
Weight/gal (mix)	9.0
Gloss @60 Degree	115
Solids %/wt (mix)	100
Solids %/vol (mix)	100
Viscosity cPs (mix)	750
Viscosity KU (mix)	68
VOC gm/l (mix)	0
Shelf Life	1 year
Color (gardner)	1

Technical Data

Tack Free over concrete @72°F	4 hr.
Foot Traffic over concrete @72°F	7 hr.
Foot Traffic -sealed surface- @72°F	7 hr.
Wheel Traffic	72 hr.
Pot Life (Gel Time) 150gm @72°F	.50 hr.
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)	6500 psi
Tensile Modulus (ASTM D638)	313,000 psi
Tensile Elongation (ASTM D638)	5%
Compressive Strength (ASTM D695)	17,300 psi
Compressive Modulus (ASTM D695)	290,000 psi
Flexural Strength (ASTM D790)	10,000 psi
Flexural Modulus (ASTM D790)	314,000 psi
Impact Resistance in-lbs direct/reverse	21/5
Hardness Shore D (ASTM D2240)	73
Pencil Hardness	2H
Reducer/Clean Up	Acetone or PCBTF

Chemical Resistance

	Clear & Pigmented
Muratic 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)	5s
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
Ketchup	5/5
Red Wine	5/5
Acetone	5
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



westcoat®

4007 Lockridge Street San Diego, CA 92102
800•250•4519 • Fax 619•255.7187 • westcoat.com

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