

**westcoat**<sup>®</sup>  
SPECIALTY COATING SYSTEMS

**SYSTEM  
SPECIFICATION**

**EC**

**EPOXY COAT**  
DURABLE RESINS & HARDENERS

## Epoxy Mortar

**Standard**

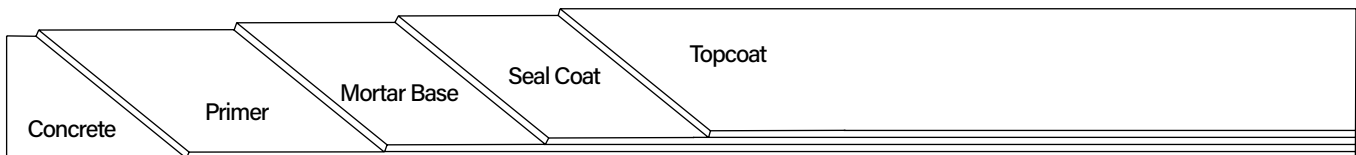
### Description

Westcoat's Epoxy Mortar System is a 100% solids epoxy, combined with graded sand and troweled into place. It provides a high-build system that is highly impact resistant, chemical resistant and very durable.

### Uses

Epoxy Mortar is used to create seamless floors in manufacturing plants, mechanical rooms, warehouses, commercial kitchens, restaurants, garages and service areas where heavy use, such as forklift traffic, occurs. Epoxy Mortar System is designed to be used as a heavy duty coating.

### System Overview



### System Data

#### Coverages

##### Primer

250-300 ft<sup>2</sup>  
per gallon

##### Mortar Base

45-50 ft<sup>2</sup> at ¼ inch per batch  
60-65 ft<sup>2</sup> at ⅜ inch per batch

##### Seal Coat

100-125 ft<sup>2</sup>  
per gallon

##### Topcoat

250-300 ft<sup>2</sup>  
per gallon

#### Components

[EC-72 Epoxy Patch Gel](#)  
[EC-76 Cove Gel](#)  
[EC-12 Epoxy Primer](#)  
[EC-32 Clear Epoxy Topcoat](#)  
[EC-34 Epoxy Topcoat](#)  
[TC-73 Epoxy Mortar Sand](#)

#### Shelf Life

2 years  
2 years  
2 years  
2 years  
2 years  
N/A

### Advantages

USDA Compliant • Impact Resistant • 100% Solids • Low Odor • High Strength • High Build • Superior Adhesion • Chemical Resistant • Wear Resistant • Choice of Colors

### Inspection

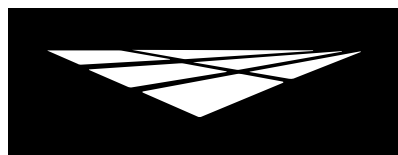
The surface must be structurally sound, clean, dry and free of grease, paint, oil, dust, curing agents, laitance or any foreign material that will prevent proper adhesion. The concrete should be at least 2,500 PSI and porous or rough enough to allow the product to soak in. A minimum of 28 days curing time is required on all concrete. Prior to starting work, test existing concrete slab for efflorescence, moisture and hydrostatic pressure.

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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. Cut ¼ x ¼ inch keyways six inches from all walls, drains and both sides of control joints at regular intervals 10 feet apart throughout the surface. All floor drains and termination points must have a ½ inch x ½ inch keyway. Prepare concrete to a profile equal to CSP 4-6 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.

### **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.

### **Crack Treatment**

Mix 1 part A with 1 part B (by volume) of EC-72 Epoxy Patch Gel together for 3-4 minutes and apply to the crack using a trowel or putty knife. Patch all spalls and cracks with EC-72 and allow to dry 2-3 hours before priming. The material may be slightly overfilled in the crack and when completely dry (in 4-6 hours) can be sanded or ground smooth. This remedial approach to patch cracks is not guaranteed and it should be noted that when the substrate moves, it could likely crack the Epoxy Mortar System.

### **Concrete Repair**

For concrete that needs repairs beyond just dormant cracks, TC-23 Mortar Mix can be used. TC-23 is designed to be used as a general concrete repair mix for horizontal and vertical applications and can be used as a patching/underlayment material under most Westcoat systems. Please refer to the TC-23 Mortar Mix Product Specification Sheet for details.

### **Cove Base**

Install cove cap or cut a reglet at the desired height (usually 6 inches). Mix 2 parts A with 1 part B (by volume) of EC-76 Cove Gel together for 3-4 minutes and spread as thin as possible onto the vertical surface. Immediately, using the same neat mix, combine with 5 parts TC-73 Epoxy Mortar Sand and trowel into place using an inside step tool and trowel to smooth. Lubricate the trowel using a solvenated rag, as needed, to keep tools clean.

### **Primer**

Mix 2 parts A with 1 part B (by volume) of EC-12 Epoxy Primer together for 3-4 minutes. For best penetration into concrete, thin by adding 1-2 quarts of Westcoat's CA-23 to each 1½ gallon kit. Thinned material must be applied at less than 5 mils. To cure properly, do not allow product to puddle. Immediately apply at a rate of 250-300 square feet per gallon, using a trowel or squeegee and then back roll to ensure complete coverage. Be sure to apply up cove to termination point. Mortar Base should be troweled into the wet primer to reduce the Mortar Base from sliding on the surface. If unable to trowel the Mortar Base into the wet primer, broadcast sand into the EC-12 Primer and allow to dry, before applying the Mortar Base.

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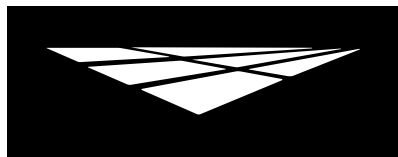


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### Mortar Base

The Mortar Base consists of 1½ gallons of EC-32 and 100 pounds of TC-73 Epoxy Mortar Sand. Mix 2 parts A with 1 part B (by volume) of EC-32 Clear Epoxy Topcoat together for 3-4 minutes and combine with 100 pounds of TC-73 Epoxy Mortar Sand. Apply at a rate of 45-50 square feet per mix at ¼ inch or 60-65 square feet per mix at ⅜ inch. Trowel material into place and lubricate the trowel using a solvenated rag, as needed, to keep tools clean.

### Seal Coat

Sand, grind and repair imperfections in the surface as required. Mix 2 parts A with 1 part B (by volume) of EC-34 together for 3-4 minutes and apply at a rate of 100-125 square feet per gallon. Apply using a squeegee or trowel to spread the material onto the floor and back roll to smooth and fill using a high quality non-shedding ¼ inch nap roller.

### Topcoat

Mix 2 parts A and 1 part B (by volume) of EC-34 for 3-4 minutes. For color consistency, box all part A's. Apply at approximately 250-300 square feet per gallon.

If additional coats are desired, they must be applied within 24 hours or the cured material must be sanded and wiped with acetone, before application.

Prohibit traffic on floor for 48 hours after installation. Avoid heavy abrasion and chemical exposure for 5 days. Allow 72 hours minimum for vehicular traffic.

### Optional Materials

#### Cement Options

- TC-23 Mortar Mix may be used as a general concrete repair mix for horizontal and vertical applications and can be used as a patching/underlayment material.

#### Skid Resistance

- CA-30 Small Safe Grip or CA-31 Large Safe Grip can be added to the EC-34 to produce a skid-resistant surface.
- CA-33 Aluminum Oxide can be used for skid resistance in heavy traffic areas.

#### Mortar Base

- For smaller projects, EC-36 100% Solids Epoxy can be used in lieu of EC-32 for the Mortar Base.

#### Seal Coat

- For smaller projects, EC-36 100% Solids Epoxy plus the desired CA-36 Epoxy Color Pack can be used in lieu of EC-34 for the Seal Coat.

#### Additional Topcoat

- EC-95G Gloss Polyurethane Topcoat can be applied over the epoxy within 24 hours to improve chemical abrasion and UV resistance, as well as gloss.
- EC-101 Polyaspartic 100% Solids may be used as a non-yellowing, high gloss, quick drying, high build, mar and chemical resistant finish with outstanding wear resistance.
- EC-102 Polyaspartic is recommended when tire staining is a concern and also provides a quick drying, UV resistant, high gloss, high build, mar and chemical resistant finish.
- EC-50 Novolac may be used as a final topcoat for extreme chemical or heat conditions.

\* Please refer to Product and System Specification Sheets for additional information.

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#### **Clean Up**

Uncured material can be removed with solvent. If cured, material can only be removed mechanically or with an environmentally-safe solvent.

#### **Maintenance**

Interior Floors can be dust mopped daily or mopped using a neutral pH cleaner. For more information on floor care and maintenance, please refer to the General Maintenance sheet.

If re-coating of the floor is required due to wear or abrasion, you will need to clean and degrease the surface, then lightly abrade and reapply the topcoat. In most cases, you will need to clean the surface with a solvent such as acetone and thin the new topcoat as well. A primer may be required. We suggest you re-coat at 5 years, depending on use. Contact Westcoat or your applicator for details.

#### **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.

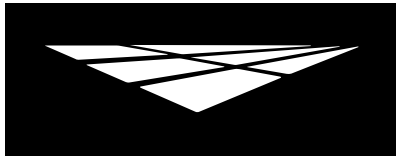
#### **Limitations**

- This system is designed for professional use only.
- Read Product Specification Sheets for every product you will be using before beginning the project.
- Be sure to do adequate surface preparation.
- Be sure to measure and mix properly.
- For interior use only.
- Test for moisture in concrete and vapor drive.
- Be aware of the pot life of mixed material.
- Do not apply in temperatures below 50°F or temperatures above 95°F. Cooler temperatures will cause slower dry times.
- Heavier topcoat may become slippery.
- Approval and verification of proposed colors, textures and slip resistance is recommended.
- Do not allow Westcoat products to freeze.

#### **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

ASTM / Test Data	Westcoat Epoxy Mortar - Standard
Tensile Properties (ASTM D638)	Strength - Neat Epoxy 4,000 psi, Elongation - Neat Epoxy 12% (7 day cure)
Tensile Strength (ASTM C307)	>1800 Resin, Hardener, Aggregate Filled
Flexural Strength (ASTM C580)	4,500 psi (+/- 200 psi)
Flexural Properties (ASTM D790) Neat Epoxy	N/A - see Thin Film data
Compressive Strength (ASTM C-579)	10,000 psi - 7 day cure
Indentation (Load - Mil-D-3134, Para. 4.7.4.2.1)	0.005 in - 7 day cure  Method: 1 in. diameter steel ram steadily applies a load of 2,000 lbs for 30 min on the test specimen that is placed on the concrete.
Indentation (Impact - Mil-D-3134, Para. 4.7.3)	0.012 indentation - 7 day cure  Method: 2 lb steel ball is dropped twice from an 8 ft height
Adhesion to Concrete (Tensile Pull - ACI 503 R)	>400 psi (100% concrete failure csp 3-4)
Abrasion Resistance (Taber - ASTM D4060).	60 mg. 1000 cycles, 1000 g. load, Wheel No. 17
Hardness ASTM D-2240 Shore D)	80-85 Shore D
Water Absorption (ASTM C-413)	<0.2% - 7 day cure
Thermal Coefficient of Linear Expansion (ASTM C-531)	10.0 x 10 <sup>-6</sup> in. / in./°F (7 day cure)
LEED EQ Credit 4.1	Meets
LEED EQ Credit 4.2	Meets
Temperature Resistance	Continuous exposure: 140°F Intermittent exposure: 200°F
Flammability Rate of Burning (ASTM D635)	CC1 in accordance with IBC Section 2606.4; specimens did not continue to flame for an extended period of time after the flame application
Flame Spread (ASTM E-84/NFPA 255)	Class B
Critical Radiant Flux (ASTM E648)	Class I

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