



EC

EPOXY COAT
DURABLE RESINS & HARDENERS

Epoxy Mortar

Description

Westcoat Epoxy Mortar 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 will apply. Epoxy Mortar System is designed to be used as a heavy duty coating.

Advantages

- Impact Resistant
- Meets USDA Criteria

- 100% Solids
- Chemical Resistant
- High Strength
- Choice of Colors
- Low Odor
- Wear Resistant
- Superior Adhesion
- High Build

Packaging

- EC-72 Epoxy Patch Gel (1/2 & 2 gallon kits)
- EC-12 Epoxy Primer (1 1/2 & 15 gallon kits)
- EC-32 Clear Epoxy Topcoat (1 1/2 & 15 gallon kits)
- EC-34 Epoxy Topcoat (1 1/2 & 15 gallon kits)
- TC-70 B-23 Monterrey Sand (100 lb bags)

INSPECTION / PREPARATION

Inspection

Surface must be structurally sound. The surface must be dry and free of oil, grease, curing agents, dirt, dust or other foreign material that may prevent proper adhesion. The surface must be porous or rough enough to allow the product to soak in. The concrete should be at least 2500 psi and feel like 30 to 50 grit sandpaper. A minimum of 28 days cured is required on all concrete. Before starting flooring work, test existing concrete slab for efflorescence, moisture, and hydrostatic pressure.

or 50, grit sandpaper. You may mechanically profile by grinding, shot blasting or scarifying. Methods may vary according to the thickness of the coating to be applied and 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 around pools, scarifying too aggressively, leaving grinding marks or grinding too smooth.

Preparation

Pre-cut and clean all cracks and joints with a concrete diamond blade to at least 1/4" x 1/4". Cut 1/4" x 1/4" keyways, 6 inches from all walls, both sides of control joints and at regular intervals 10 feet apart throughout the surface. All floor drains and termination points must have a 1/2" x 1/2" keyway. Prepare concrete to a profile equal to 30

Moisture

All concrete should be tested for moisture before applying a seamless coating. Water vapor transmission upwards through on-grade concrete slabs may result in loosening of epoxy floors or improper curing of epoxy materials. If moisture emissions exceed 5 lbs./1000 sq ft. contact the manufacturer before application.

APPLICATION

Crack Filler

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. The material may be slightly overfilled in the crack and 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.

Immediately, using the same neat mix, combine with 5 parts B-23 Monterey Sand and trowel into place using an inside step tool and trowel to smooth. Lubricate the trowel using a solvent on a rag as needed to keep tools clean.

Cove Base

Install cove cap or cut a reglet at the desired height (usually 6 inches). Mix 1 part A with 1 part B (by volume) of EC-76 Epoxy Cove Paste together for 3-4 minutes and spread as thin as possible onto the vertical surface.

Primer

Mix 2 parts A with 1 part B (by volume) EC-12 Epoxy Primer together for 3-4 minutes. Immediately apply at a rate of 250-300 (5-8 mils) 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.

For maximum penetration into the concrete, thin by adding 1-2 quarts of acetone to each 1/2 gallon kit. Thinned material must be applied at no more than 5 mils (and not allowed to puddle) to cure properly. Allow primer to cure a minimum of 12 hours at 70°F before applying Mortar Base.

Mortar Base

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 B-23 Monterrey Sand. Apply at a rate of 45 square feet per mix to equal approximately 1/4 inch, or 60 square feet to equal 3/16 inch. Trowel material into place and lubricate the trowel using a solvent on a rag as needed to keep tools clean.

Seal Coat

Sand, grind, and repair imperfections in the surface. Mix 2 parts A with 1 part B (by volume) of EC-34 together for 3-4 minutes and apply at a rate of 75 square feet per gallon. First brush to fill all of the vertical cove and then using a squeegee or trowel spread the material onto the floor and back roll to smooth and fill using a high quality non-shedding 1/4 inch nap roller. Coved areas may require additional coats to properly seal.

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 (5-8 mils).

Recoating

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.

Protection of Finished Work

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.

Clean Up

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

Optional Materials

Skid Resistance

- CA-30 or CA-31 Safe Grip maybe added to the EC-34 for skid resistance.
- TC-70 Silica Sand at 20-30 mesh can be broadcasted into the primer or topcoat and backrolled for skid resistance.

Additional Topcoat

- EC-95 Polyurethane Topcoat can be applied over the epoxy within 24 hours to improve chemical, abrasion and UV resistance as well as gloss.
- EC-50 Novolac may be used as a final topcoat for extreme chemical or heat conditions.
- See Product Specification sheets for detailed instructions

MAINTENANCE

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

If recoating 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 recoat at 5 years depending on use. Contact Westcoat or your applicator for details.

LIMITATIONS

- This system is designed for professional use only.
- Read individual Product Specification sheets for each product you will be using before beginning the project.
- For interior use only.
- Be sure to do adequate surface preparation.
- Test for moisture in concrete and vapor drive.
- 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 95°F. Cooler temperatures will cause slower dry times.
- Do not allow Westcoat product to freeze.
- Heavier topcoat may become slippery.
- Approval and verification of proposed colors, textures, and slip resistance is recommended.

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.

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.

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

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.



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