



EPOXY COAT
DURABLE RESINS & HARDENERS

EC-12 Epoxy Primer

Description

Westcoat EC-12 Epoxy Primer is a two component, 100% solids, low viscosity, moisture tolerant, fast drying, high strength, and multi-purpose epoxy primer.

- High Strength
- Superior Adhesion

Uses

EC-12 is used to prime concrete, metal, and wood as well as many other existing coatings. It is an all-around concrete primer/sealer.

Packaging

1/2 and 15 gallon kits

Advantages

- USDA & FDA Compliant
- 100% Solids
- Low Viscosity
- Chemical Resistant
- High Build
- Convenient 2:1 Mix

Color

| | | |
|---------------|---------------|-------|
| Lawn Green | Sand | White |
| Pewter Gray | Slate Blue | Black |
| Rocky Nook | Deep Tan | Clear |
| Tile Red | Travatan | |
| Cape Cod Gray | Stone Gray | |
| Spanish Brown | Concrete Gray | |
| Omaha Tan | Mission Red | |
| Sandy Beige | Arizona Tan | |

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. For color consistency, box all part A's. In a clean bucket, mix 2 parts A with 1 part B, by volume of EC-12. 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).

Applying Product

As a primer, immediately after mixing, spread a strip of the batch 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 inch nap non-shedding roller.

Thinning

Thin EC-12 with 1 to 2 quarts of acetone, or in some cases EC-12 may be thinned up to equal parts with acetone. Thinned material must be applied at less than 5 mils (not allowed to puddle) to cure properly.

As an intermediate coat, mix and apply without solvent at the desired thickness using a notched trowel or squeegee and backroll. The addition of silica flour or silica sand will add body and help to build up more cost effectively.

Coverage

EC-12 covers up to 300 square feet per gallon under normal conditions, which will achieve 5.2 dry mils. EC-12 may be applied at a heavier rate to achieve a higher build system or to accommodate the broadcasting of aggregates

Dry Time

You may re-coat as soon as the surface is dry to touch or in about 8 hours (but not later than 24 hours). Light foot traffic may be permitted in 12 hours, light vehicle traffic in 48 hours, heavy traffic in 7 days. All times are based on average temperature of 70 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

- 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 weather 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 | Modified Bis A Modified Amidoamine | |
|----------------------|---------------------------------------|-----------|
| | Clear | Pigmented |
| Weight/gal (mix) | 9.0 | 10.2 |
| Gloss @60 Degree | 118 | 110 |
| Solids %/wt (mix) | 100 | 100 |
| Solids %/vol (mix) | 100 | 100 |
| Viscosity cPs (mix) | 800 | 1000 |
| Viscosity KU (mix) | 65 | 70 |
| VOC gm/l (mix) | 0 | 9.3 |
| Shelf Life | 1 year | 1 year |
| Color (gardner) | 3 | NA |

Technical Data

| | Clear | Pigmented |
|---|------------------|-------------|
| Tack Free over concrete @72°F | 4 hr. | 5 hr. |
| Foot Traffic over concrete @72°F | 7.5 hr. | 7 hr. |
| Foot Traffic -sealed surface- @72°F | 8,75 hr. | 8,25 hr |
| Wheel Traffic | 72 hr. | 72 hr. |
| Pot Life (Gel Time) 150gm @72°F | 32 min. | 32 min. |
| Heat Resistance (constant) | 130°F | 130°F |
| Heat Resistance (intermittent) | 180°F | 180°F |
| Adhesion on steel ASTM D3359 | 5 | 5 |
| Adhesion on concrete ASTM D3359 | 5 | 5 |
| Tensile Strength (ASTM D638) | 7550 psi | 7325 psi |
| Tensile Modulus (ASTM D638) | 335,000 psi | 310,000 psi |
| Tensile Elongation (ASTM D638) | 14% | 12% |
| Compressive Strength (ASTM D695) | 25,000 psi | 24,000 psi |
| Compressive Modulus (ASTM D695) | 300,000 psi | 290,000 psi |
| Flexural Strength (ASTM D790) | 11,135 psi | 10,250 psi |
| Impact Resistance in-lbs direct/reverse | 15/2 | Not Tested |
| Hardness Shore D (ASTM D2240) | 65 | 65 |
| Pencil Hardness | 2H | 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) | 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 |

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

EC-12 4/18