



EPOXY COAT
DURABLE RESINS & HARDENERS

EC-34 Epoxy Topcoat

Description

EC-34 Epoxy Topcoat is a two-component, 100% solids, medium viscosity, low odor, high-build, chemical resistant epoxy.

- Low Odor
- High Build
- Superior Adhesion

Uses

EC-34 epoxy is used to create industrial seamless floors in manufacturing plants, mechanical warehouses, industrial kitchens, and garages. It is best used as a filler coat, broadcast coat or final topcoat.

Packaging

1 1/2 gallon kits

Advantages

- Medium Viscosity
- Meets USDA criteria
- 100% Solids
- Chemical Resistant
- High Strength
- Clear or Pigmented

Color

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

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 concrete should be porous and be able to absorb water. The surface must be porous or rough enough to allow the product to soak in. 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.

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, grinding marks or grinding too smooth. When applying over existing epoxy, sand the surface with a floor buffer and 80 grit sand paper, remove debris and wipe with denatured alcohol or acetone just before new application.

Preparation

Pre-cut and clean all cracks and joints with a concrete diamond blade to at least 1/4 x 1/4 inch. Prepare concrete to a profile equal to 30 or 50, grit sandpaper. You may mechanically profile by grinding, shot blasting, scarifying, or water blasting. Methods may vary according to the thickness of the coating to be applied, and the condition

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 3 lbs./1000 sq ft. contact the manufacturer before application.

APPLICATION

Mixing

As a coating, pre-mix each component seperately. Mixing should be done by using a mechanical mixer. Mix 2 parts of Part A with 1 part of Part B, by volume of EC-34, into a clean container. Make sure to scrape the sides and bottom of container during mixing. Mix only the amount of material that can be used within the pot life. For an epoxy mortar, mix 2 to 5 parts of silica sand or other dried aggregate by volume to 1 part of mixed EC-34 and mix until uniform in consistency. For a slurry filler, combine 1 1/2 gallons of mixed EC-34 with 1 1/2 gallons slurry filler powder (a combination of Silica Sand and Silica Flour) using a mechanical mixer.

Thinning

EC-34 can be thinned with acetone typically 1 to 2 quarts.

Coverage

As a coating, 100-300 square feet per gallon depending on conditions or specified mils. As a mortar, 1 gallon of epoxy mixed with 5 gallons of sand will yield approximately 3 to 4 gallons of mortar. As a slurry filler, 1 1/2 gallons of epoxy with 1 1/2 gallons of slurry filler powder will cover approximately 100 sq. ft. at 40 mils.

Applying Product

Before applying as a primer, prime the surface using EC-12 Epoxy Primer or EC-11 Water-Based Epoxy (See Product Specification Sheets)

As a coating, apply EC-34 within 24 hours after the primer coat. 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 ¼ inch 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. A non-skid surface can be achieved by broadcasting and/or back rolling silica sand or other dried aggregate into the coating.

For an epoxy mortar, prime the area with a neat batch of EC-12 Epoxy Primer or EC-11 Water-Based Epoxy. Apply the prepared mortar using a trowel within 24 hours.

As slurry filler, prime the area with a neat batch of EC-12 Epoxy Primer or EC-11 Water-Based Epoxy. Apply the prepared slurry filler using a trowel within 24 hours.

Dry Time

You may re-coat as soon as the surface is dry to the touch or in about 8 hours. Light foot traffic may be permitted in 12 hours, normal traffic in 24 hours and vehicle traffic in 72 hours. All times are based on average temperature of 70°F 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

- Do not apply at temperatures is below 50°F or above 90°F.
- Do not apply over concrete under hydrostatic pressure.
- For interior use only unless protected by a UV resistant coating.
- Concrete must be cured for a minimum of 28 days
- Do not allow any Westcoat products to FREEZE.

HEALTH PRECAUTIONS

Inhalation of vapor or mist can cause headache, nausea irritation of nose, throat, and lungs. Prolonged or repeated skin contact can cause slight skin irritation.

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.

TECHNICAL DATA

Viscosity (ASTM-D-445-83, Brookfield, RVTD, Sprindle 4)	2100 cps
Gel Time (Techne GT-4 Gelation Timer)	60 (150 mass/min)
Tensile Strength (ASTM-D-638-86)	6100 psi
Tensile Elongation (ASTM-D-638-86)	6.0%
Heat Deflection at 264 psi (ASTM-D-648)*	38 C
Shore D Hardness (ASTM-D-2240-86)*	82
Mar Resistance (ASTM-D-5178-91)	1.35 kg
Glass Transition Temperature (ASTM-D-3418-82)	125 F
Color (ASTM-D-1544-80)	<2 Gardner
Thin Film Set Times at 70°F (BK Drying Recorder)	7 hrs.
Flexural Strength (ASTM-D-790-88)	9150 psi
Compressive Strength @ Yield (ASTM 695-85)	11800 psi
Compressive Modulus (ASTM 695-85)	326 Thousand psi
Chemical Composition	Modified Bisphenol A epoxy resin crosslinked with aliphatic and cycloaliphatic polyamines

*Properties determined after 7 days cure at 25°C



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