

westcoat[®]
SPECIALTY COATING SYSTEMS

**PRODUCT
SPECIFICATION**

EC

EPOXY COAT
DURABLE RESINS & HARDENERS

EC-50 Novolac

Description

Westcoat EC-50 Novolac is a two-component, 100% solids, heat and chemical resistant epoxy. This highly versatile epoxy coating comes in clear and pigmented.

Uses

Novolac is used where conditions are too severe for a normal bis A type epoxy coating. It is designed for commercial kitchens, restaurants and food service areas to withstand high oven temperatures. It is also used in areas requiring high chemical resistance, such as: manufacturing plants, factories, warehouses and areas where use of chemicals and cleaners are commonplace. Novolac is designed to be used as a medium to heavy duty coating.

Advantages

USDA/FDA Compliant • Chemical Resistant • Convenient 2:1 Mix • High Build • Seamless • Durable
• Withstands High Temperatures up to 320F Degrees

Product Data			
Packaging	1.5 gal & 15 gal kits available	Color	Cape Cod Gray, Concrete Gray, Clear, Pewter Gray, Travatan, Tile Red
Coverages	~100-300 ft ² / US gal. (As a Coating) ~50-100 ft ² / US gal. (As a Slurry)	Mix Ratio	2:1 (By Volume)
VOC Content	0 gm/l	Shelf Life	3 years in unopened packaging

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.

Preparation

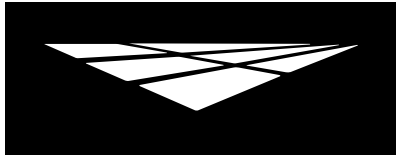
Please refer to desired System Specification Sheet for more information on preparation. Methods may vary according to the condition and hardness of the concrete. Other factors include the forecasted use of the surface and the environment in which it is to be installed. When preparing the surface use caution when shot blasting, scarifying too aggressively, leaving grind marks or grinding too smooth. For best results, EC-12 Epoxy Primer or EC-15 Moisture Vapor Barrier are recommended as a primer. Please refer to these Product Specification Sheets for more information.

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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Moisture

All concrete should be tested for moisture before applying a seamless coating. If moisture emissions exceed 5 lbs/1000 square feet/24 hours (ASTM F1869) or if the relative humidity (RH) exceeds 75% (ASTM F2170), contact the manufacturer before 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-50. 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 70F degrees).

Thinning

Thinning is not recommended.

Coverage

Coverage will vary depending on condition of surface and desired thickness. As a primer: 300-500 square feet per gallon. As a coating: 100-300 square feet per gallon. As a mortar: 30-60 square feet per gallon.

Applying Product

As a coating, apply EC-50 within 24 hours (at 72F degrees) 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 ¼ to ⅜ inch nap, non-shedding roller designed for use with epoxies. For thicker applications, 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. Please refer to desired System Specification Sheet for more information on applying the product.

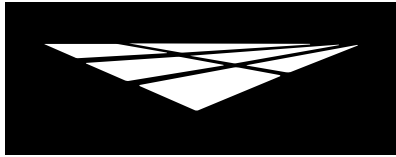
For an epoxy mortar: To create the mortar mix, combine mixed EC-50 with aggregate at a rate of 50-100 pounds per gallon, depending on aggregate and desired psi. Within 24 hours of priming, spread the prepared mortar mix evenly with a trowel. Read the Epoxy Mortar System Specification Sheet for details.

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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 and vehicle traffic in 3 days. All times are based on average temperature of 70F 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 when temperatures are below 50°F or above 90°F. Hot or cold weather will affect dry times.
- Epoxy must be cured for a minimum of 24 hours before coming in contact with water.
- Skid resistant additives are available, such as CA-30 or CA-31.
- 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.

Slip Precaution

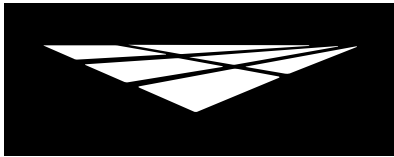
Westcoat Specialty Coatings Systems highly recommends the use of a slip-resistant additive to all coatings/systems that may be exposed to wet, oily, greasy or slippery conditions. It is the end user's responsibility to provide a flooring system that meets current safety standards. Westcoat and its distributors 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

Physical Properties

Chemical Composition	Modified Bis F Novolac crosslinked with modified amines
Weight/gal (mix)	9.5
Gloss @60 Degree	102
Solids %/wt (mix)	100
Solids %/vol (mix)	100
Viscosity cPs (mix)	3268
Viscosity KU (mix)	125
VOC gm/l (mix)	0
Shelf Life	3 years
Color (gardner)	NA

Chemical Resistance

	Clear & Pigmented
Muriatic Acid (31.5% HCL)	5
Sulfuric Acid (50% H2SO4)	5
Sulfuric Acid (93% H2SO4)	5s
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

Technical Data

Tack Free over concrete @72°F	3.75 hr.
Foot Traffic over concrete @72°F	7 hr.
Foot Traffic -sealed surface- @72°F	N/A
Wheel Traffic	72 hr.
Pot Life (Gel Time) 150gm @72°F	40 min.
Heat Resistance (constant)	250°F
Heat Resistance (intermittent)	350°F
Adhesion on steel ASTM D3359	5
Adhesion on concrete ASTM D3359	5
Hardness Shore D (ASTM D2240)	88 (7 days) 92 (heat cure 250°F)
Pencil Hardness	4H
Reducer/Clean Up	CA-23 or Acetone

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

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