



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 and also for use 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
- Durable
- High Build
- Seamless
- Withstands High Temperatures up to 320°F

Packaging

1½ and 15 gallon kits

Color

- | | |
|------------|---------------|
| Clear | Cape Cod Gray |
| Stone Gray | Travatan |
| Deep Tan | Tile Red |

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-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 70 degrees).

evenly and worked into the surface to help seal and avoid pinholes. When thinned, apply EC-50 at a maximum of 5 mils, do not allow material to puddle.

Thinning

EC-50 may be thinned with up to 100% (equal parts) acetone, by volume, if thinned it must be applied thinly enough to allow solvent to escape (minimum 300 sf per gallon).
As a primer: Up to 100% acetone
As a coating: 10-20% acetone
As a mortar: Thinning is not recommended

As a coating, apply EC-50 within 24 hours 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 1/4" 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.

Coverage

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

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

Applying Product

As a primer, spray or squeegee and backroll thinned EC-50 onto the surface. Primer coat should be applied

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, vehicular traffic in 72 hours. All times are based on average temperature of 70 degrees and 50% humidity.

removed mechanically.

Clean Up

Uncured material should be removed with an environmentally-safe solvent. Cured material should be

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.

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.

Physical Properties

Chemical Composition	Modified Bis F/ Novolac cross-linked 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	1 year
Color (gardner)	NA

Chemical Resistance

	Clear & Pigmented
Muratic 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	NA
Wheel Traffic	72 hr.
Pot Life (Gel Time) 150gm @72°F	.60 hr.
Heat Resistance (constant)	250°F
Heat Resistance (intermitent)	350°F
Adhesion on steel ASTM D3359	5
Adhesion on concrete ASTM D3359	5
Flexural Strength (ASTM D790)	21,097 psi
Flexural Modulus (ASTM D790)	501.845 psi
Flexural Strain @ yield %	6.6
Hardness Shore D (ASTM D2240)	88(7 days)/92(heat cure 250°F)
Pencil Hardness	4H
Reducer/Clean Up	Acetone or PCBTF

Key:
 5 = Best (no effect)
 4 = Softens (recovers)
 3 = Softens (no recovery)
 2 = Blistered (no recovery)
 1 = Wost Destroyed
 s = With Stain
 * Contact time > 5hrs = 1



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