



westcoat[®]
SPECIALTY COATING SYSTEMS

**PRODUCT
SPECIFICATION**

EC

EPOXY COAT
DURABLE RESINS & HARDENERS

EC-96 Satin Polyurethane Topcoat

Description

Westcoat EC-96 Satin is a two component, high solids, solvenated, polyurethane topcoat. The UV, mar and chemical resistant nature of this product allows it to outperform most other types of sealers or topcoats when compared. EC-96 Satin is a true satin, that will reduce or eliminate light reflection.

Uses

EC-96 Satin is designed for professional use only and is specified as the finish coat for use in moderate chemical environments or in heavy traffic areas. Apply EC-96 Satin as a coating over Westcoat epoxy and urethane floor coatings. EC-96 Satin is also used as a topcoat on a variety of other substrates such as concrete, Texture-Crete™ and stained concrete flooring when applied over a clear epoxy or urethane. Use EC-96 Satin on decorative floors, garage floors, industrial floors, restaurant floors, food processing facilities and automotive service areas where a low maintenance, satin finish is desired.

Advantages

USDA/FDA Compliant • Chemical Resistant • Satin Finish • Low Maintenance • Impact and Abrasion Resistant • Aliphatic Polyester Polyurethane • Versatile • 120 Minute Pot Life • VOC Compliant

Product Data			
Packaging	1 gal kits	Color	Clear Satin
Coverages	~600-1000 ft ² / US gal. as a Sealer	Mix Ratio	2:1 (By Volume)
VOC Content	<100 gm/l	Shelf Life	3 years in unopened packaging

Inspection

EC-96 MUST NOT BE APPLIED DIRECTLY OVER CONCRETE OR POLYMER OVERLAYS. As a precautionary measure, apply EC-96 over an epoxy or urethane (such as EC-32 or EC-95) within 24 hours to eliminate possible whitening issues. Contact your Westcoat representative for further information.

Surfaces must be structurally sound and sloped for drainage. 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.

Moisture

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

Preparation

As a final coat over epoxy systems, EC-96 Satin must be applied within 24 hours. If more than 24 hours have passed, lightly abrade the surface and wipe with a solvent such as acetone or alcohol prior to the application. In all cases you will need to thin the EC-96 Satin prior to application.

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Mixing

As a topcoat, premix each component separately. Mix 2 parts A with 1 part B (by volume) of EC-96, into a clean container. 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.

Thinning

When applying as sealer directly over Westcoat epoxy or urethane coatings, it is recommended to thin the EC-96 Satin with equal parts of acetone. Thinning will help avoid bubbles and unevenness.

Coverage

~600-1000 square feet per gallon as a sealer.

Applying Product

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EC-96 Satin can be sprayed or rolled. When applying over a smooth surface, immediately after mixing, transfer material into a Hudson type or airless sprayer. Spray evenly across entire surface, being sure to achieve full coverage.

If applying over a textured surface, you may roll the material. When rolling; immediately after mixing, spread a strip of the material onto the surface along the edge where it will be cut in using a brush. Pour the remaining material near the cut in area and spread evenly using a squeegee or flat trowel and back roll with a $\frac{3}{8}$ to $\frac{1}{2}$ inch non-shedding, solvent resistant roller cover. Apply quickly and do not over roll, as product will begin to "tack-up" as the air begins to cure it.

Re-coating

Re-coat if needed, within 24 hours of application to ensure adhesion. If a delay occurs, it is recommended that the surface be lightly sanded and wiped with denatured alcohol just before reapplication. A test area should be performed prior to all re-coats.

Dry Time

You may re-coat as soon as the surface is dry to the touch (~10 to 12 hours @ 72°F), but no later than 24 hours. Light foot traffic may be permitted in 24 hours. It will take 7 days for the material to cure completely. All times are based on average temperature of 72°F and 50% humidity. Dry times may increase slightly when solvent is added.

Clean Up

Uncured material can be removed with an environmentally safe solvent. Cured material can only be removed mechanically.

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Limitations

- This product is designed for professional use only.
- Be sure to measure and mix properly.
- *EC-96 MUST NOT BE APPLIED DIRECTLY OVER CONCRETE OR POLYMER OVERLAYS.* As a precautionary measure, apply EC-96 over an epoxy or urethane (such as EC-32 or EC-95) within 24 hours to eliminate possible whitening issues. Contact your Westcoat representative for further information.
- Do not apply when ambient or substrate temperatures are below 50°F or above 90°F. Hot or cold weather will affect dry times.
- EC-96 must be cured for a minimum of 24 hours before coming into contact with water.
- Skid resistant additives are available, such as CA-30 or CA-31.
- Please check with local laws governing the use of solvents.
- Do not allow Westcoat products to freeze.
- Product has a strong odor.

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.

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Technical Data

Physical Properties Satin	Saturated Polyester Crosslinked with Aliphatic Polyisocyanate
Weight/gal (mix)	9.9
Gloss @60 Degree	34
Solids %/wt (mix)	70
Solids %/vol (mix)	60
Viscosity cPs (mix)	381
Viscosity KU (mix)	62
VOC gm/l (mix)	<100
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)	1
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	5
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	Clear
Tack Free over concrete @72°F	2 hr.
Foot Traffic over concrete @72°F	6.25 hr.
Foot Traffic -sealed surface- @72°F	8 hr.
Wheel Traffic	72 hr.
Pot Life (Gel Time) 150gm @72°F	120 min.
Heat Resistance (max)	250°F
Adhesion on steel ASTM D3359	5
Adhesion on concrete ASTM D3359	5
Impact Resistance in-lbs direct/reverse	160 psi (concrete fails)
Hardness Shore D (ASTM D2240)	84
Pencil Hardness	3H
Reducer/Clean Up	CA-23
Flexibility (ASTM D222)	Pass 1/8 inch

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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