

**westcoat**<sup>®</sup>  
SPECIALTY COATING SYSTEMS

**PRODUCT  
SPECIFICATION**

**EC**

**EPOXY COAT**  
DURABLE RESINS & HARDENERS

## **EC-24 Temper-Crete™ Urethane**

### **Description**

Westcoat EC-24 Temper-Crete™ Urethane is a 100% Solids, two-component, low odor, aromatic urethane resin designed to be used with Westcoat Temper-Crete™, Temper-Crete™ Broadcast, Temper-Crete™ Trowel Down and Temper-Crete™ Cove Systems.

### **Uses**

EC-24 Temper-Crete™ Urethane is a urethane binder that is combined with TC-24 or TC-74 cements to create monolithic systems that are ideal in service areas where a high build and fast turnaround floor system is required. Perfect for commercial kitchens, restaurants, warehouses, breweries, wineries, chemical processing plants, food processing plants and pharmaceutical facilities.

### **Advantages**

USDA/FDA/ADA Compliant • Thermal Shock Resistant • Low Odor • High Compressive Strength • High Build • Fast Turnaround • Chemical Resistant • Heat Resistant

<b>Product Data</b>			
<b>Packaging</b>	246 ounce kit	<b>Color</b>	White & Brown
<b>Coverages</b>	Coverage will vary depending on use.	<b>Mix Ratio</b>	131 fl. oz.:115 fl. oz. (By Volume)
<b>VOC Content</b>	7 gm/l	<b>Shelf Life</b>	2 years in unopened packaging

### **Inspection**

Temper-Crete™ should only be applied directly to prepared concrete. Do not apply Temper-Crete™ over existing coatings, tile, wood, etc. Concrete must be clean, dry and free of grease, paint, oil, dust, curing agents or any foreign material that will prevent proper adhesion. Any laitance or weak layers of concrete should be removed, prior to application. The concrete should be at least 3,500 PSI, porous and able to absorb water. A minimum of 14 days curing time is required on all concrete. Do not apply over damp or water-soaked concrete.

### **Preparation**

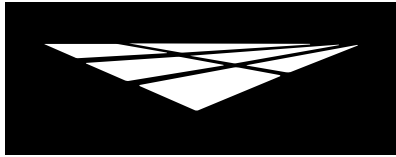
Pre-cut and clean all cracks and joints with a concrete diamond blade to at least ¼ x ¼ inch. Anchor grooves/keyways should be cut six inches from all free edges, walls, perimeter, drains and both sides of joints. Anchor keyways should be cut to a depth and width two times the thickness of the Temper-Crete™ floor. Prepare concrete to a profile equal to CSP 3-6 as specified by ICRI. Methods may vary according to the condition and hardness of the concrete. When preparing the surface use caution when shot blasting, scarifying too aggressively or grinding too smooth. Do not feather edge the Temper-Crete™ System. Always terminate into an anchor groove/keyway. For more information on preparation, please refer to the appropriate System Specification sheet.

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### **Moisture**

All concrete should be tested for moisture before applying a seamless coating. If moisture emissions exceed 15 lbs/1000 square feet (ASTM F1869) or if the relative humidity (RH) exceeds 90% (ASTM F2170), contact the manufacturer before application.

### **Applying Product**

EC-24 Temper-Crete™ Urethane can be used with Westcoat Temper-Crete™, Temper-Crete™ Broadcast, Temper-Crete™ Trowel Down and Temper-Crete™ Cove Systems.

All materials should be conditioned at 60-75F degrees for a minimum of 24 hours, before use. Pre-mix EC-24 Temper-Crete™ Urethane parts A and B individually. If an integral color is desired, add the TC-45 Dry Pigment color of choice, into EC-24 part A (prior to mixing with part B) and mix with a dispersion blade until a uniform color is achieved. In a clean vessel, mix the entire contents of EC-24 part A and B together for 30 seconds with a mechanical mixer. Slowly add one bag of TC-24 Temper-Crete™ Cement, TC-24 Temper-Crete™ Primer & Topcoat Cement or other approved materials and thoroughly mix the materials until a homogeneous mix is attained (~60 seconds), while being sure to scrape the sides of the vessel while mixing. Failure to properly mix materials may result in an inconsistent finish and can affect how the material flows and performs.

For more information on product application, please refer to the appropriate System Specification sheet.

### **Dry Time**

Light foot traffic should be permitted after 18 hours. Heavy traffic and exposure to moisture and chemicals should be permitted after 72 hours. All dry times based on 72F degrees. Colder temperatures will prolong dry times. For more information on Dry Times, please refer to the appropriate System Specification sheet.

### **Optional Materials**

#### **Accelerator**

- CA-24 Temper-Crete™ Accelerator can be added to the EC-24 to reduce dry times for the Primer and Temper-Crete™ Coat applications. Up to 1 fluid ounce is recommended per kit of EC-24. Up to 1 ounce can be added to the Primer Coat. ½ ounce can be added to the Temper-Crete™ Coat. If temperature is below 50F degrees, up to 1 ounce may be added to the Temper-Crete™ Coat. CA-24 will reduce dry times, but will also reduce the working time.

### **Clean Up**

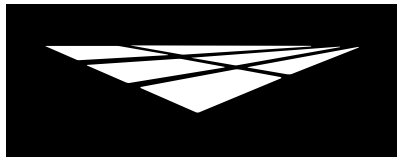
Uncured material can be removed with an environmentally-safe solvent. If cured, material can only be removed mechanically.

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### **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. All products have the potential of causing skin irritations or allergic reactions. Cements contain silicas; dust mask or respirator should be used when mixing, sanding or grinding. Be careful not to get on skin, clothes or in eyes. Glove and respirators are strongly recommended. Avoid breathing vapors. If splashed in the eye, flush with warm water and contact a physician if blurring persists.

Extinguish all pilot lights and sources of ignition, such as electrical motors. Be sure to have adequate cross ventilation prior to installing.

### **Limitations**

- This system is designed for professional use only, by experienced applicators.
- Read Product Specification Sheets for every product you will be using before beginning the project.
- Be sure to do adequate surface preparation.
- Avoid application while ambient and substrate temperatures are climbing, as pinholes may appear.
- Be sure to measure and mix properly. Do not overmix material.
- For interior use only.
- May be slippery when wet.
- Do not apply to wet surfaces.
- Temper-Crete™ will have a mottled finish.
- Be aware of the pot life of mixed material. Once materials are combined, immediately remove mix from mixing vessel.
- Do not apply in temperatures below 50°F or temperatures above 75°F. Hot or Cold weather will effect dry times.
- Material will discolor in time. Ultraviolet and some artificial lights may cause floors to discolor faster.
- Do not apply material in direct sunlight. This can cause early surface dry, which can cause the surface to expand and crack.
- Approval and verification of proposed colors, textures and slip resistance is recommended.
- Do not allow Westcoat products to freeze.

### **Slip Precaution**

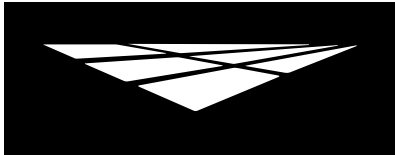
Westcoat Specialty Coatings Systems highly recommends the use of a slip-resistant additive to all coatings/systems that may be exposed to wet, oily, greasy or slippery conditions. It is the end user's responsibility to provide a flooring system that meets current safety standards. Westcoat and its distributors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

**Chemical Resistance**

Muriatic Acid (31.5% HCL)	4
Sulfuric Acid (50% H2SO4)	4
Nitric Acid (10% HNO3)	4
Sodium Hydroxide (50% NaOH)	4
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
Ketchup	5
Red Wine	5
Acetone	5
Methyl Ethyl Ketone (MEK)	5
Xylene	5
Ethanol	5
Methanol	5

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

**Physical Properties**

EC-24 Temper-Crete™ Urethane Shelf Life	2 years
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**Technical Data**

Tack Free over concrete @72°F	6 hr.
Foot Traffic over concrete @72°F	18 hr.
Wheel Traffic	72 hr.
Pot Life (Gel Time) 150gm @72°F	5-10 mins
Adhesion to Concrete (ASTM D4541)	concrete fails
Compressive Strength (ASTM C-579)	6,100 psi
Tensile Strength (ASTM C-307)	1000 psi
Flexural Strength (ASTM C-580)	2,100 psi
Impact Resistance (ASTM D-2794)	>160 in./lbs
Hardness (ASTM D-2240, Shore D)	78
Flammability (ASTM E-648)	Class 1
Water Absorption (ASTM C-413)	<0.1%
VOC Content (ASTM D-2369, Method E)	12 g/l
Service Temperature	-40°F min - 250°F Max
Softening Point	266°F
Slip Resistance	-
Coefficient of Thermal Expansion	0.9x10 in./in./°F
Abrasion Resistance CS-17 Wheel 1,000 Cycles (ASTM D4060)	0.07 gm loss
Resistance to Fungi Growth (ASTM G21)	Rated 0 (no growth)
Resistance to Mold Growth (ASTM D3273)	Rated 10 (highest resistance)

\* Values based on standard mix, will vary according to final use.

**Temper-Crete™ Topcoat Color Guide**

<b>TC-45 Color</b>	<b>TC-65 Color</b>
Carbon (TC-45-350)	Granite (TC-65-104)
Sol (TC-45-351)	Desert Storm (TC-65-112)
Sky (TC-45-352)	Dove Gray (TC-65-102)
Lava (TC-45-353)	Rose (TC-65-116)
Terra (TC-45-354)	Autumn (TC-65-101)

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