



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

**SYSTEM  
SPECIFICATION**

**EC**

**EPOXY COAT**  
DURABLE RESINS & HARDENERS

**Temper-Crete™** **Industrial**

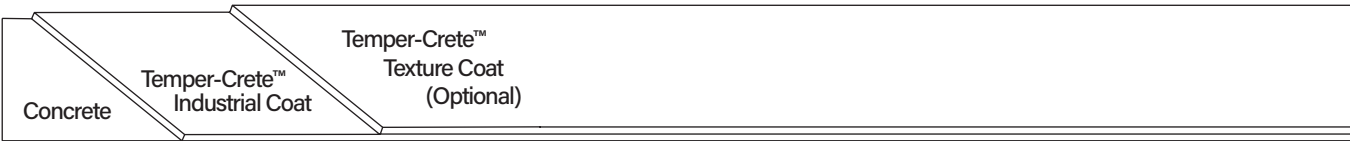
**Description**

Westcoat's Temper-Crete™ Industrial system is a trowel applied, urethane cement mortar, that is commonly installed at a ¼ inch thickness and can be installed with limited downtime. The Temper-Crete™ Industrial system features an integral color with matte finish and has excellent impact, chemical, heat and steam resistant qualities and is designed for areas with heavy foot and moderate wheel traffic.

**Uses**

The Temper-Crete™ Industrial System is used to create an industrial seamless floor in service areas where a high-build, self-leveling and fast turnaround floor system is required. The Temper-Crete™ Industrial System is ideal for commercial kitchens, restaurants, bakeries, breweries, wineries, freezers, food processing plants and pharmaceutical facilities.

**System Overview**



System Data		
<b>Coverages</b>	<b>Temper-Crete™ Industrial Coat</b> 60 ft <sup>2</sup> at ¼ inch per batch	<b>Optional Temper-Crete™ Texture Coat</b> 200-300 ft <sup>2</sup> per batch
<b>Components</b>	<u>EC-24 Temper-Crete™ Resin</u> <u>TC-2 Smooth Texture Cement</u> <u>TC-45 Dry Pigment</u> TC-70 B-125 Monterey Sand TC-70 Course Aquarium	<b>Shelf Life</b> 2 years 1 year 3 years N/A N/A

**Advantages**

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

**Inspection**

Concrete must be 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 3,000 PSI, porous and able to absorb water. A minimum of 14 days curing time is required on all concrete. For applications over "Green" concrete, please contact Westcoat. Do not apply Temper-Crete™ over existing coatings.

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### Preparation

Pre-cut and clean all cracks and joints with a concrete diamond blade to at least ¼ x ¼ inch. Cut ¼ x ¼ inch keyways six inches from all walls, drains and both sides of control joints at regular intervals 10 feet apart throughout the surface. All floor drains and termination points must have a ¼ inch x ½ inch keyway bevel. 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.

### 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.

### Crack Treatment

Cracks can be pre-filled by mixing the entire contents of parts A & B of the EC-24 Temper-Crete™ Resin with approximately 35 pounds (or about ⅔ of a bag) of TC-2. Fill the pre-cut cracks and trowel smooth. Smaller batches can be made, if desired. This remedial approach to patch cracks is not guaranteed and it should be noted that when the substrate moves, it could likely crack the Temper-Crete™ Industrial System.

### Joints

Moving expansion joints should be honored. Identify and tag joints before applying Temper-Crete™, using pins or concrete nails. Within 24 hours of applying Temper-Crete™, cut through the system and fill with a polyurea joint filler.

### Temper-Crete™ Industrial Coat

All materials should be kept between 50-75 degrees. Pre-mix parts A and B individually. Add TC-45 Dry Pigment into EC-24 Part A until a homogeneous mix is attained. In a clean vessel, mix the entire contents of parts A and B of EC-24 together for 30 seconds with a mechanical mixer. Slowly add one 50 pound bag of TC-2 Smooth Texture Cement and mix until homogeneous. Then, slowly combine 50 pounds of TC-70 B-125 Monterey Sand and 50 pounds of TC-70 Coarse Aquarium until a homogeneous mix is attained. Be sure to thoroughly mix the materials and scrape the sides of the vessel while mixing.

Pour the mixture immediately onto the surface and spread using a gauge rake at ¼ inch. With a clean steel trowel, finish the surface to the desired thickness. Be sure to periodically check the thickness of the floor during application. Promptly after troweling material, use a loop roller with mild pressure to backroll the entire floor. Be sure to periodically change roller covers to ensure that curing material does not come in contact with uncured material. Immediately repeat this procedure, keeping a wet edge until the job is complete. It is important to apply the material in an expeditious manner always keeping a wet edge. Each mix will cover approximately 60 square feet at ¼ inch.

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### **Dry Time**

Average Dry time for the Temper-Crete™ is 6 hours at 72 degrees. Optional Texture Coat may be applied after Temper-Crete™ Industrial Coat has dried for 8-10 hours. Colder temperatures will prolong dry times. Light foot traffic should be permitted after 12 hours. Excessive traffic and exposure to moisture and chemicals should be permitted after 4-5 days.

### **Optional Temper-Crete™ Texture Coat**

To add a texture coat, premix parts A and B individually. If an integral color is desired, add TC-45 Dry Pigment into EC-24 Part A until a homogeneous mix is attained. The color will vary from the Temper-Crete™ Industrial coat. In a clean vessel, mix the entire contents of parts A and B of EC-24 together for 30 seconds with a mechanical mixer. Slowly add 35 pounds (or about 2/3 of a bag) of TC-2 Smooth Texture Cement and mix until homogeneous. Trowel the mix at 1/32 inch or about 200-300 square feet per mix. Immediately broadcast 30 grit silica sand into the wet mix and backroll with a 1/4 inch nap roller.

### **Optional EC-101 Polyaspartic 100% Solids**

EC-101 Polyaspartic 100% Solids may be used when a pigmented topcoat is desired. Allow 12 hours before applying EC-101 over the Temper-Crete™ Industrial Coat. The Temper-Crete™ Industrial Coat needs to be abraded and solvent wiped before applying EC-101.

### **Optional Materials**

#### **Skid Resistance**

- CA-30 Small Safe Grip or CA-31 Large Safe Grip can be added to the EC-101 to produce a skid-resistant surface.

\* Please refer to Product and System Specification Sheets for additional information.

### **Clean Up**

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

### **Maintenance**

Interior Floors can be mopped & scrubbed daily using a neutral pH cleaner. Standard floor degreasers may be used as needed. Floors can be cleaned with a low PSI pressure washer and steam as needed. Be sure to test any cleaning agents and methods in an inconspicuous area. For more information on floor care & maintenance, please refer to the General Maintenance sheet.

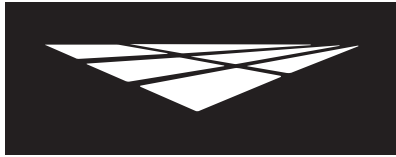
The Temper-Crete™ Industrial System should be inspected for wear every 2 to 4 years. The system should be maintained every 3 to 5 years depending upon traffic. Contact the original installer of this Westcoat project for complete maintenance instructions.

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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.

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.

### Limitations

- This system is designed for professional use only.
- Read Product Specification Sheets for every product you will be using before beginning the project.
- Be sure to do adequate surface preparation.
- Be sure to measure and mix properly.
- For interior use only.
- May be slippery when wet.
- Do not apply to wet surfaces.
- This material will have a mottled finish.
- Be aware of the pot life of mixed material.
- Do not apply in temperatures below 50°F or temperatures above 75°F. Hot or Cold weather will effect dry times.
- Do not apply material in direct sunlight. Ultraviolet and some artificial lights may cause floors to yellow.
- 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™ Resin Shelf Life	2 years
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**Technical Data**

Tack Free over concrete @72°F	6 hr.
Foot Traffic over concrete @72°F	12 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)	5,626 psi
Tensile Strength (ASTM C-307)	900 psi
Flexural Strength (ASTM C-580)	1,361 psi
Impact Resistance (ASTM D-2794)	>160 in/lbs
Hardness (ASTM D-2240, Shore D)	82
Flammability (ASTM E-648)	Class 1
Water Absorption (ASTM C-413)	<0.1%
VOC Content (ASTM D-2369, Method E)	5 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.

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