



Description

Westcoat's Temper-Crete™ Standard System is a monolithic, flowable, urethane cement that can be installed with limited downtime. The Temper-Crete™ Standard System has excellent impact, chemical and thermal shock resistant qualities. The Temper-Crete™ Standard System features an integral color with a matte, sand finish and is designed for areas with heavy foot and moderate wheel traffic.

Uses

Temper-Crete™ 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™ System is ideal for commercial kitchens, restaurants, bakeries, breweries, wineries, freezers, food processing plants and pharmaceutical facilities.

System Overview



System Data		
Coverages	Temper-Crete™ Coat 80 ft ² at 1/8 inch per batch 40 ft ² at 1/4 inch per batch	Temper-Crete™ Texture Coat (Optional) 200-300 ft ² at 1/32 inch per batch
Components	EC-24 Temper-Crete™ Resin TC-2 Smooth Texture Cement TC-70 B-125 Monterey Sand TC-45 Dry Pigment	Shelf Life 2 years 1 year N/A 3 years

Advantages

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

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. Anchor keyways should be cut six inches from all walls, drains and both sides of control 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.

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, spawls and other imperfections in the substrate can be pre-filled by mixing the entire contents of parts A and 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™ 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™ Coat

All materials should be kept between 50-75F degrees. Premix 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. Add 35 pounds of TC-70 B-125 Monterey Sand or approximately two gallons worth, until a homogeneous mix is attained. The maximum thickness of the Temper-Crete™ Coat should be ¼ inch. 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 ⅛ inch to ¼ inch. Immediately repeat this procedure keeping a wet edge until the job is complete.

Promptly after gauge raking material, use a loop roller 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. It is important to apply the material in an expeditious manner always keeping a wet edge. Each mix will cover approximately 80 square feet at ⅛ inch and 40 square feet at ¼ inch.

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SPECIALTY COATING SYSTEMS

**SYSTEM
SPECIFICATION**

EC

EPOXY COAT
DURABLE RESINS & HARDENERS

Temper-Crete™

Standard

Dry Time

Average Dry time for the Temper-Crete™ is 6 hours at 72F degrees. Optional Texture Coat may be applied after Temper-Crete™ 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.

Temper-Crete™ Texture Coat (Optional)

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™ 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.

EC-101 Polyaspartic 100% Solids Topcoat (Optional)

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™ Coat. The Temper-Crete™ 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.
- Silica Sand and select aggregates may be used when a slip resistant finish is desired.

* 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 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™ 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, 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.
- 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)	6,191 psi
Tensile Strength (ASTM C-307)	1000 psi
Flexural Strength (ASTM C-580)	2,132 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

TC-45 Color

TC-65 Color

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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