



EPOXY COAT
DURABLE RESINS & HARDENERS

Tidalstone™ Flooring System Thin Film

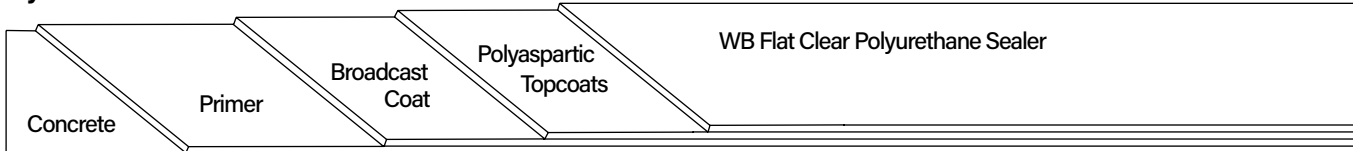
Description

Westcoat's Tidalstone™ Flooring System is a multi-layered, resinous flooring system that features the decorative TC-62 Tidalstone™ aggregate blends, EC-102 Polyaspartic and SC-65F WB Flat Clear Polyurethane Sealer. This unique system produces a finish similar to the look of polished concrete or terrazzo flooring, with a natural, flat finish, while providing all the benefits and attributes of a resinous flooring system.

Uses

Tidalstone™ Flooring System is a decorative, durable and chemical resistant option that is an ideal choice for designers and architects and is intended for use in showrooms, offices, recreation rooms, laboratories and clean rooms.

System Overview



System Data					
Coverages	Primer 250-300 ft ² per gallon	Broadcast Coat 175-225 ft ² per gallon	Tidalstone Aggregate Blend 7-8 ft ² per pound	Polyaspartic Topcoats 1st: 120-140 ft ² per gallon 2nd: 250-300 ft ² per gallon	WB Flat Polyurethane Sealer 680-720 ft ² per gallon
Components	EC-72 Epoxy Patch Gel EC-12 Epoxy Primer EC-102 Polyaspartic Topcoat SC-65F Polyurethane Sealer TC-62 Tidalstone Aggregate Blend			Shelf Life 2 years 2 years 2 years 1 year N/A	

Advantages

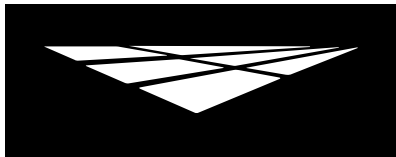
- USDA Compliant
- Chemical Resistant
- Seamless
- Easy Clean Up
- Durable
- Decorative
- Choice of Colors
- Can be Installed Solvent Free
- UV Resistant Finish

Inspection

The surface must be structurally sound, 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 2,500 PSI and porous or rough enough to allow the product to soak in. A minimum of 28 days curing time is required on all concrete. Prior to starting work, test existing concrete slab for efflorescence, moisture and hydrostatic pressure.

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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. Prepare concrete to a profile equal to CSP 3 as specified by ICRI. Methods may vary according to the condition and hardness of the concrete. Other factors include the forecasted use of the surface and the environment in which it is to be installed. When preparing the surface use caution when shot blasting, scarifying too aggressively, leaving grind marks or grinding too smooth.

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), please refer to the EC-15 Moisture Vapor Barrier Product Specification Sheet.

Crack Treatment

Mix 1 part A with 1 part B (by volume) of EC-72 Epoxy Patch Gel together for 3-4 minutes and apply to the crack using a trowel or putty knife. Patch all spalls and cracks with EC-72 and allow to dry 2-3 hours before priming. The material may be slightly overfilled in the crack and when completely dry (in 4-6 hours) can be sanded or ground smooth. This remedial approach to patch cracks is not guaranteed and it should be noted that when the substrate moves, it could likely crack the Tidalstone™ Flooring System.

Concrete Repair

For concrete that needs repairs beyond just dormant cracks, TC-23 Mortar Mix can be used. TC-23 is designed to be used as a general concrete repair mix for horizontal and vertical applications and can be used as a patching/underlayment material under most Westcoat systems. Please refer to the TC-23 Mortar Mix Product Specification Sheet for details.

Primer

It is recommended to use pigmented EC-12, in the same color as the EC-102, for a more uniform and consistent finish. Mix 2 parts A with 1 part B (by volume) of EC-12 Epoxy Primer together for 3-4 minutes. For best penetration into concrete, thin by adding 1-2 quarts of Westcoat's CA-23 to each 1½ gallon kit. Thinned material must be applied at less than 5 mils. To cure properly, do not allow product to puddle. Immediately apply at a rate of 250-300 square feet per gallon, using a trowel or squeegee and then back roll to ensure complete coverage. For best results, it is recommended to apply a second coat of EC-12, neat at 150-250 square feet per gallon, to seal the concrete and provide an even surface for the Broadcast Coat.

Broadcast Coat

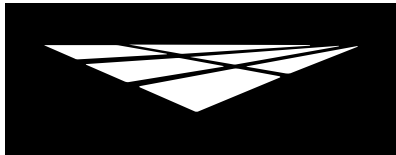
Mix 1 part A and 1 part B (by volume) of EC-102 Polyaspartic (Pigmented). For color consistency, box all part A's. Apply at the rate of 175-225 square feet per gallon. Broadcast pre-mixed TC-62 Tidalstone™ aggregate blends into the wet EC-102 to refusal (until no shiny spots are evident), at approximately 7-8 square feet per pound. After the EC-102 has cured, collect all loose TC-62 and scrape and sand surface. Sanding the surface with a finer grit may provide a smoother texture when desired. Ensure that the surface is dry enough to sand, as sanding improperly may damage the surface. Vacuum all loose TC-62 and ensure that the floor is clean and free of any unbonded TC-62, prior to proceeding with the Polyaspartic Topcoat.

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Polyaspartic Topcoat

Combine 1 part A, with 1 part B of EC-102 Clear Polyaspartic and mix thoroughly with a low speed drill motor for 2-3 minutes. Pour immediately onto the floor and spread the material using a squeegee or trowel. Use a 3/8 inch nap, non-shedding roller cover and backroll the material in both directions. Coverage should be around 120-140 square feet per gallon. After the topcoat has dried, you may sand or scrape rough spots and apply a second coat of EC-102 Clear at approximately 250-300 square feet per gallon. If additional coats are desired, they must be applied within 24 hours or the cured material must be sanded and wiped with acetone, before application.

WB Flat Polyurethane Sealer

Pre-mix each component of SC-65F WB Flat Polyurethane Sealer separately. In a clean bucket, mix 3 parts A with 1 part B (by volume) of SC-65F Water-Based Flat Polyurethane Sealer. Mix thoroughly with a low speed (200-300 rpm) drill motor for 2-3 minutes. Make sure to scrape the sides and bottom of the container during mixing. Immediately after mixing, apply the SC-65F onto the substrate at a rate of 680-720 square feet per gallon. SC-65F can be sprayed or rolled. For best results, spray SC-65F neat, with an airless sprayer. SC-65F may be applied with a squeegee or sprayed with a pump sprayer (note thinning may be required to spray properly out of a pump sprayer) and back rolled with a 1/4 to 3/8 inch, high-quality, non-shedding roller cover, being sure to maintain a wet edge. For best results, two coats are recommended to ensure an even finish, they must be applied within 24 hours or the cured material must be sanded and wiped with acetone, before application.

Dry Time

You may re-coat as soon as the surface is dry to the touch or in about 4-8 hours. Light foot traffic may be permitted in 12 hours, normal traffic in 24 hours and vehicle traffic in 72 hours. All times are based on average temperature of 72F degrees and 50% humidity. Avoid heavy abrasion and chemical exposure for 5 days.

Optional Materials

Cement Options

- TC-23 Mortar Mix may be used as a general concrete repair mix for horizontal and vertical applications and can be used as a patching/underlayment material.

Broadcast Coat - 100% Solids Option

- When a 100% solids system is required, EC-34, EC-36 or EC-101 can be used in lieu of EC-102 for the broadcast coat.

Topcoat - 100% Solids Option

- When a 100% solids system is required, EC-32, EC-36 or EC-101 can be used in lieu of EC-102 for the Topcoat.

Topcoat Options

- EC-95G or EC-95F can be used in lieu of SC-65F, when a solvent-based polyurethane topcoat is required.
- SC-65G or SC-65SG can be used in lieu of SC-65F when a Gloss or Semi-Gloss WB Polyurethane is required.

Skid Resistance

- CA-30 Small Safe Grip or CA-31 Large Safe Grip can be added to the EC-102 to produce a skid-resistant surface.
- CA-33 Aluminum Oxide can be used for skid resistance in heavy traffic areas.

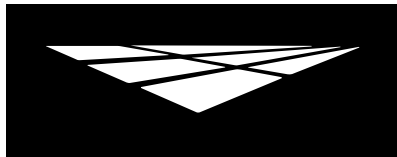
* Please refer to Product and System Specification Sheets for additional information.

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Clean Up

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

Maintenance

Interior Floors can be dust mopped daily or mopped using a neutral pH cleaner. For more information on floor care and maintenance, please refer to the General Maintenance sheet.

The Tidalstone™ Flooring System should be inspected for wear every 2 to 4 years. The system should be resealed with the appropriate Westcoat topcoat every 3 to 5 years depending upon traffic and UV exposure. Contact the original Installer of Westcoat for complete re-coating instructions.

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.

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.
- It is recommended to produce a mock up prior to proceeding with this project.
- Ensure that the EC-102 and TC-62 Broadcast Coat is dry enough, before sanding. Avoid aggressive sanding as this may damage the surface.
- Be sure to measure and mix properly.
- For interior use only.
- Test for moisture in concrete and vapor drive.
- Be aware of the pot life of mixed material.
- Do not apply in temperatures below 50°F or temperatures above 90°F. Cooler temperatures will cause slower dry times.
- Thinly applied coatings may not hide epoxy patches, rough concrete or shotblast tracks.
- Heavier topcoat may become slippery.
- 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.

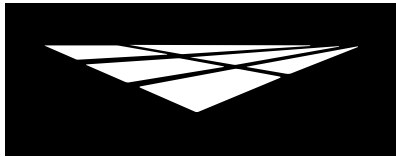
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Technical Data

Chemical Resistance

SC-65F Water-Based Flat Polyurethane Sealer

Chemical Resistance

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
Isopropyl Alcohol (99%)	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	5/5s
Ketchup	5/5
Red Wine	5/5
Acetone	5
Methyl Ethyl Ketone (MEK)	5
Xylene	5
Skydrol	5
Ethanol	5
Methanol	5

Key:

- 5 = Best (no effect)
- 4 = Softens (recovers)
- 3 = Softens (no recovery)
- 2 = Blistered (no recovery)
- 1 = Worst (destroyed)
- s = Stains but resists degradation

Testing done per ASTM D1308

All Single Numbers = 2 hr Contact time

All Multiple Numbers Separated by a Slash = 2 hr contact time / 24 hr contact time

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