

**westcoat**®  
SPECIALTY COATING SYSTEMS

# TIDALSTONE™ HIGH BUILD



**EPOXY COAT**  
DURABLE RESINS & HARDENERS



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# TIDALSTONE HIGH BUILD SUBMITTAL PACKAGE

DIVISION 09 – FINISHES  
SECTION 09 67 23 RESINOUS FLOORING

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# SYSTEM BROCHURE



## **ABOUT TIDALSTONE™**

Westcoat's Tidalstone™ Flooring System is a multi-layered flooring system that features innovative and decorative aggregate blends. The combination of ultra fine and oversized particles simulate the look of an exposed aggregate in a polished concrete surface. Replicate the look while providing all the benefits and attributes of a resinous flooring system. This system can be installed as a Thin Film or High Build assembly.



## **ULTRA-TOUGH. PROTECTIVE.**

- USDA Compliant
- Chemical-Resistant
- Seamless
- Simulates exposed aggregate
- Endless color combinations
- Can be Installed Solvent-Free
- UV Resistant Finish



**FOR PROFESSIONAL USE ONLY.**





## TIDALSTONE A SIMULATED CONCRETE LOOK FOR INTERIOR FLOORS

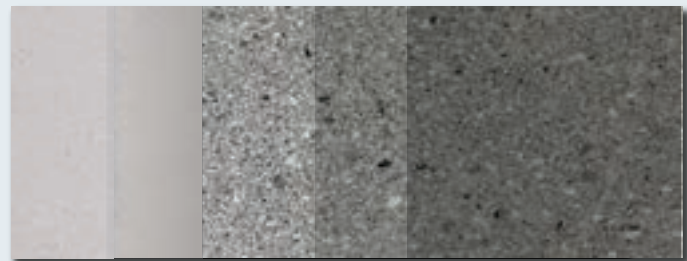
Tidalstone™ introduces a new Texture-Coat product that can be applied in decorative and industrial solutions: TC-62 Tidalstone Aggregate Blend is a synthetic, broadcast medium that is available in seven different color blends: Cambria, Trinidad, Avalon, Mendocino, Laguna, Hermosa, and Coronado.

Tidalstone™ comes in a multitude of colors and can be applied over various topcoats, allowing for customization for every space.

### THIN FILM

Westcoat's Tidalstone™ Thin Film Flooring System is the standard Tidalstone system that combines Westcoat's epoxy primer, polyaspartic topcoat, polyurethane sealer, and aggregate blend products to create a seamless, decorative floor coating. It is ideal for areas such as showrooms, offices, recreation rooms, laboratories, and more.

### THIN FILM

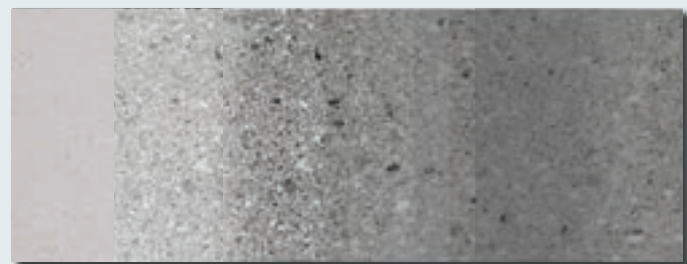


Concrete Primer Broadcast Coat Polyaspartic Topcoats Polyurethane Sealer

### HIGH BUILD

Westcoat's Tidalstone™ High Build Flooring System has all the features of Tidalstone Thin Film with the use of Westcoat's Temper-Crete™ urethane cement base instead of Epoxy Primer and Patch Gel. This provides extra benefits such as Thermal Shock Resistance, Moisture Tolerance, Self-Leveling, and High Compressive Strength.

### HIGH BUILD



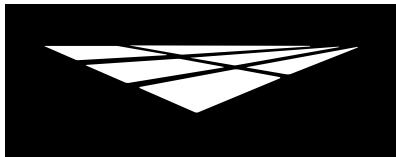
Concrete Temper-Crete Coat & Broadcast 2nd Broadcast Coat Polyaspartic Topcoats Polyurethane Sealer





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# SYSTEM SPECIFICATION SHEET



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**SYSTEM  
SPECIFICATION**

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**Tidalstone™ Flooring System High Build**

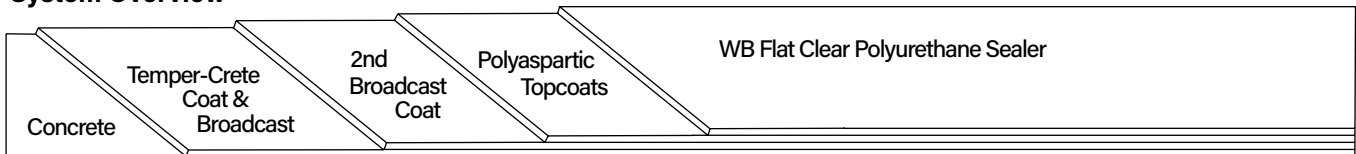
**Description**

Westcoat's Tidalstone™ High Build Flooring System is a multi-layered, resinous flooring system that features Westcoat's Temper-Crete™ urethane cement base, decorative TC-62 Tidalstone™ aggregate blend, 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**

<b>Coverages</b>	<b>Temper-Crete™ Coat</b> 40-45 ft² at 1/8 inch per batch 20-22.5 ft² at 1/4 inch per batch  <b>Tidalstone Aggregate Blend</b> 7-8 ft² per pound	<b>Polyaspartic Topcoat</b> 175-225 ft² per gallon  <b>Tidalstone Aggregate Blend</b> 7-8 ft² per pound	<b>Polyaspartic Topcoats</b> 1st: 120-140 ft² per gallon 2nd: 250-300 ft² per gallon	<b>WB Flat Polyurethane Sealer</b> 680-720 ft² per gallon
<b>Components</b>	<a href="#">EC-24 Temper-Crete™ Urethane</a> <a href="#">TC-24 Temper-Crete™ Cement</a> <a href="#">EC-102 Polyaspartic Topcoat</a> <a href="#">SC-65F Polyurethane Sealer</a> <a href="#">TC-62 Tidalstone Aggregate Blend</a>		<b>Shelf Life</b> 2 years 6 months 2 years 1 year N/A	

**Advantages**

USDA/FDA/ADA Compliant • Thermal Shock Resistant • Chemical Resistant • Seamless • High Build • High Compressive Strength • Can be Installed Solvent Free • Self-Leveling • Moisture Tolerant

**Inspection**

Tidalstone Flooring System should only be applied directly to prepared concrete. Do not apply Tidalstone Flooring System 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.

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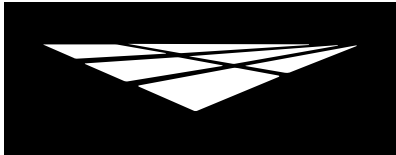


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### Preparation

Pre-cut and clean all cracks and joints with a concrete diamond blade to at least ¼ x ¼ inch. Anchor 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 Tidalstone Flooring System. Prepare concrete to a profile equal to CSP 3-4 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 Tidalstone Flooring System. Always terminate into an anchor groove/keyway.

### Moisture

All concrete should be tested for moisture before applying a seamless coating. Tidalstone High Build (at a minimum ¾", broadcast finish at ¼") is suitable for moisture vapor transmission up to 20 lbs/1000 square feet (ASTM F1869) or 99% relative humidity (RH) (ASTM F2170). When applying at ⅛", moisture limits are up to 15 lbs/1000 square feet (ASTM F1869) or 95% relative humidity (RH) (ASTM F2170).

### Crack Treatment

Cracks, spawls and other imperfections in the substrate can be prefilled by mixing one kit of EC-24 Temper-Crete™ Urethane and one bag of TC-24 Temper-Crete™ Cement. Pre-mix EC-24 parts A and B individually. In a clean vessel, mix the entire contents of EC-24 parts A and B together for 30 seconds with a mechanical mixer. Slowly add one bag of TC-24 Cement 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. Trowel the mixture into the voids and allow patching to dry for ~8-10 hours at 72F degrees before coating. 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.

### Joints

Moving expansion joints should be honored. Identify and tag joints before applying Temper-Crete™ SLB, using pins or concrete nails. Once the Temper-Crete™ SLB System has dried, cut through the system and fill with the appropriate joint filling material.

### Primer (Optional)

Priming the substrate is not normally required, but due to variances in concrete, surface profile and desired finish, priming may be needed to help stabilize the substrate and ensure a more uniform finish. 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. 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-74 Temper-Crete™ Primer & Topcoat Cement 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. Apply the mixture onto the surface at a rate of ~120-150 square feet per mix using a ⅛ inch notched trowel or squeegee and back roll with a ¾ inch nap roller cover. Primer should be applied into anchor grooves/keyways, but brushed out to prevent from filling. Allow primer to dry for ~8-10 hours at 72F degrees, before proceeding with the Temper-Crete™ Coat.

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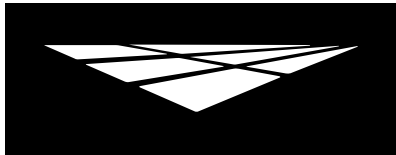


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### **Temper-Crete™ Coat and Tidalstone Aggregate Blend Broadcast**

The Temper-Crete™ Coat can be applied from 1/8 inch to 1/4 inch thickness, on level or surfaces that have up to a 2% slope. 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. 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 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.

After mixing, immediately pour the material onto the surface and spread using a gauge rake. Repeat and be sure that the mixes are poured directly into the wet edge. It is recommended to have multiple mixing buckets in use, to reduce timing between mixes. After the material has been placed with the gauge rake, use an 18 inch pin roller to roll the entire floor and then crosshatch or cross roll. Pin rolling will help reduce entrapped air and will help remove pour lines. Pin rolling must be completed immediately after placing material, to reduce the chance of roller marks (~5 minutes at 72F degrees). 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 40-45 square feet at 1/8 inch and 20-22.5 square feet at 1/4 inch. After placing and pin rolling the Temper-Crete™ Coat as described above, allow the Temper-Crete™ Coat to sit for ~12-15 minutes at 72F degrees before proceeding with the broadcast. Broadcasting too early may result in entrapped air and may yield an irregular surface, while broadcasting too late may result in poor adhesion of the aggregate. Broadcast pre-mixed TC-62 Tidalstone™ aggregate blends to refusal at approximately 7-8 square feet per pound by broadcasting the material up into the air and allowing the aggregate to evenly disperse and fall into the wet Temper-Crete Coat. Careful and even placement of the TC-62 will help prevent displacement and ensure more even coverage. Ensure that no bare spots are evident and do not pin roll material once broadcast. Allow the Temper-Crete Coat and Tidalstone Aggregate Broadcast Coat to dry for approximately 24 hours at 72F degrees. Colder temperatures will prolong dry times. After the Temper-Crete Coat and Tidalstone Aggregate Broadcast is dry, scrape and sweep up excess TC-62 Tidalstone Aggregate Blends and vacuum the floor clean.

### **2nd Tidalstone Aggregate Blend Broadcast**

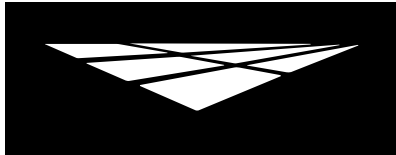
Mix 1 part A and 1 part B (by volume) of EC-102 Polyaspartic. Depending on the desired color, pigmented EC-102 can be used in lieu of clear, to change the overall appearance of the floor. Please refer to the TC-62 Tidalstone Color Chart for color references. For color consistency, box all part A's. Apply 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 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  $\frac{3}{8}$  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 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  $\frac{1}{4}$  to  $\frac{3}{8}$  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.

#### **Dry Time**

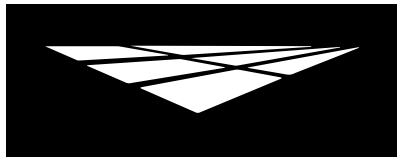
You may re-coat as soon as the surface is dry to the touch or in about 4-8 hours. Light foot traffic may be permitted in 12 hours, normal traffic in 24 hours and vehicle traffic in 72 hours. All times are based on average temperature of 72F degrees and 50% humidity. Avoid heavy abrasion and chemical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

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### 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. Refer to the CA-24 Product Specification Sheet for more information.

#### 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.

### 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 Tidalstone Flooring System should be inspected for wear every 2 to 4 years. The system should be maintained every 3 to 5 years depending upon traffic. If re-coating of the floor is required due to wear or abrasion, you will need to clean and degrease the surface, then lightly abrade and reapply the topcoat. In most cases, you will need to clean the surface with a solvent, such as acetone and thin the new topcoat as well. A primer may be required. Contact Westcoat or your applicator for details.

### 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.

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

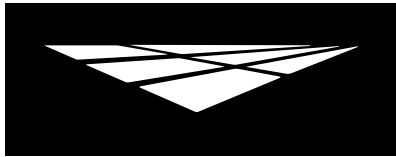
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#### Limitations

- 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 damp or wet surfaces.
- 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 85°F. Hot or Cold weather will effect dry times.
- Do not apply material in direct sunlight. This can cause early surface dry, which can cause the surface to expand and crack.
- Material will discolor in time. Ultraviolet and some artificial lights may cause floors to discolor faster.
- Approval and verification of proposed colors, textures and slip resistance is recommended.
- Do not allow Westcoat products to freeze.
- Do not apply the Temper-Crete™ SLB System if the concrete substrate has ASR (Alkali Silica Reaction) or is susceptible to ASR.
- The Temper-Crete™ SLB System follows the overall lay of the existing substrate and the finished floor may reflect conditions of the existing substrate. These conditions include, but are not limited to, a "wavy" appearance or transitions between slabs.

#### 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.

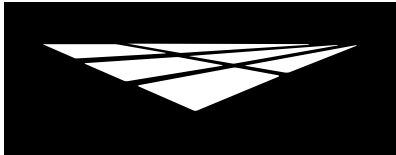
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**Technical Data**

**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

**Technical Data**

Tack Free over concrete @72°F	4 hr.
Foot Traffic over concrete @72°F	12-16 hr.
Wheel Traffic	72 hr.
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
Water Absorption (ASTM C-413)	<0.1%
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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# CSI SPECIFICATION



## SECTION 09 67 23 RESINOUS FLOORING TIDALSTONE FLOORING SYSTEM – HIGH BUILD

### PART 1 GENERAL

#### 1.1 SUMMARY

- A. Section includes: Provide a complete resinous flooring system for interior concrete surfaces that meet the requirements for specific use indicated in the contract documents. Include all applicable substrate testing, surface preparation, and detail work.

#### 1.2 RELATED SECTIONS

- A. Section 03 30 00 – Cast-In-Place Concrete
- B. Section 03 39 00 - Concrete Curing

#### 1.3 SYSTEM DESCRIPTION

- A. The scope of work shall entail substrate preparation, the provision and application of a self-leveling, seamless urethane cement with aggregate broadcast with topcoat.
- B. The overall system will feature the desired color and nominal thickness between 3/16" and 5/16", as specified by the owner. The specified system will be applied to the prepared area(s) as indicated in the plans and per the manufacturer's recommendations.
- C. Cove base (as required) should be installed as indicated on the plans and per the manufacturer's recommendations, unless otherwise noted.

#### 1.4 SUBMITTALS

- A. Product Data: Submit latest version of manufacturer's product and system data, including physical properties, color charts, representing manufacturer's full range of colors, textures and thicknesses.
- B. Manufacturer's Safety Data Sheets (SDS) for each product that
- C. Selection Samples: For the proposed system, provide two sets of samples of a minimum 3"x3", representing the color, texture, thickness and general appearance of the system subject to normal tolerances.

#### 1.5 QUALITY ASSURANCE

- A. All materials used in the resinous floor system shall be manufactured and provided by a single manufacturer to ensure compatibility and proper bonding.
- B. Use adequate numbers of skilled workmen thoroughly trained and experienced in the necessary crafts and completely familiar with the specified requirements and methods needed for proper performance of the work of this section.
- C. Applicator shall have a minimum of 3 years' experience installing resinous flooring coatings similar to that which is required for this project and who is acceptable to the manufacturer.
  - 1. Applicator shall designate a single individual as project foreman who shall be on site at all times during installation.
  - 2. Applicator must show and have QCA Qualified Contractor/Applicator paperwork from the manufacturer of the coating system, as required to obtain a long-term jobsite specific warranty.
- D. Convene a pre-application meeting before the start of application of coating system. Require attendance of parties directly affecting work of this section, including: Architect, contractor, applicator, and authorized representative of the coating system manufacturer and interfacing trades. Review the following:

1. Drawings and specifications affecting work of this section.
  2. Protection of adjacent surfaces.
  3. Surface preparation and substrate conditions.
  4. Application.
  5. Field quality control.
  6. Protection of coating system.
  7. Repair of coating system.
  8. Coordination with other work.
- E. No requests for substitutions shall be considered that would alter the general type of the specified system.

## **1.6 DELIVERY, STORAGE & HANDLING**

- A. Delivery: Materials shall be delivered to the job site in sealed, undamaged containers. Each container shall be clearly marked with manufacturer's label showing type of material, color, and lot number.
- B. Storage:
1. Store all materials in a clean, dry place.
  2. Materials should be stored between 60-75°F. Do not store in direct sunlight or high heat.
  3. Do not allow any material to freeze.
  4. Safety Data Sheets (SDS) for all products and materials shall be kept on site.
- C. Handling: Handle products carefully to avoid damage to the containers. Read all labels, production specification sheets, system specification sheets and Safety Data Sheets (SDS) prior to use.

## **1.7 ENVIRONMENTAL CONDITIONS**

- A. Site Requirements
1. Maintain environmental conditions (temperature, humidity, and ventilation) within the limits recommended by the manufacturer.
  2. Concrete shall be tested for moisture in accordance with ASTM F1869, before applying seamless coating. Water vapor transmission upwards through on-grade concrete slabs may result in loosening of resinous floors or improper curing of resinous flooring materials. If moisture emissions exceed 15 pounds per 1,000 square feet contact the manufacturer before application.
  3. Concrete must be at least 3500 psi.
  4. Concrete must be cured for a minimum of 14 days before coating is applied.
  5. Schedule coating work to avoid excessive dust and airborne contaminants. Protect work areas from excessive dust and airborne contaminants during coating application.
  6. Before any work is started, the applicator shall examine all surfaces for any deficiencies. Should any deficiencies exist, the architect, owner or general contractor shall be notified in writing and any corrections necessary shall be made.
  7. The applicator shall provide sufficient lighting during the prep and installation of the system, equivalent to the final lighting.
- B. Requirements for new concrete that will be coated with urethane cement.
1. All concrete shall be moisture cured for at least 7 days and have fully cured for a minimum of 14 days, in accordance with ACI-308 prior to the application of the system and pending moisture testing.
  2. Concrete should have a flat rubbed finish, float or light steel trowel finish. Hard steel trowel finishes are not required or advisable.
  3. Sealers and or curing agents are not to be used.
  4. All concrete surfaces that are on grade shall, should be constructed with a vapor barrier to protect against the effects of vapor transmission and the concerns with delamination of the system.

## **PART 2 PRODUCTS**



## 2.1 FLOORING

- A. As a basis of design: Westcoat Tidalstone Flooring System – High Build, self-leveling urethane cement with TC-62 Tidalstone Aggregate blend, polyaspartic and WB polyurethane flooring system (no substitutions will be accepted).
1. System Materials:
    - a. Resin & Hardener: EC-24 Temper-Crete Urethane
    - b. Cement: TC-24 Temper-Crete SL Cement
    - d. Broadcasted Aggregate: TC-62 Tidalstone Aggregate Blends
    - e. Topcoats: EC-102 Polyaspartic Topcoat and SC-65F WB Flat Polyurethane Sealer.
- Optional Topcoats:
- f. SC-65G WB Gloss Polyurethane may be used in lieu of SC-65F when a low odor, solvent free, mar and chemical/UV resistant gloss finish is required.
  - g. SC-65SG WB Semi-Gloss Polyurethane may be used in lieu of SC-65F when a low odor, solvent free, mar and chemical/UV resistant semi-gloss finish is required.
  - h. EC-95G Gloss Polyurethane may be used in lieu of SC-65F when a chemical/UV resistant, solvent-based gloss finish is required.
  - i. EC-95F Flat Polyurethane may be used in lieu of SC-65F when a chemical/UV resistant, solvent-based flat finish is required.
  - j. EC-101 Polyaspartic 100% Solids may be used in lieu of EC-102 as a non-yellowing, high gloss, quick drying, high build, mar and chemical resistant finish with outstanding wear resistance.
  - k. EC-32 and EC-36 may be used in lieu of EC-102 when a 100% solids epoxy is required.

## 2.2 MANUFACTURERS

- A. Approved manufacturer: Westcoat Specialty Coatings; 4007 Lockridge Street, San Diego, CA 92102. Telephone 800-250-4519. Fax 619-262-8606. Website: [www.westcoat.com](http://www.westcoat.com).

## 2.3 PRODUCT REQUIREMENTS

- A. Temper-Crete System
1. Adhesion to Concrete: ASTM D4541, concrete fails.
  2. Compressive Strength: ASTM C-579, 6,191 psi.
  3. Tensile Strength: ASTM C-307, 1,000 psi.
  4. Flexural Strength: ASTM C-580, 2,132 psi.
  5. Impact Resistance: ASTM D-2794, >160 in/lbs.
  6. Hardness: ASTM D-2240, Shore D, 78.
  7. Flammability: ASTM E-648, Class I.
  8. Water Absorption: ASTM C-413, <0.1%.
  9. VOC Content: ASTM D-2369, Method E, 12 g/l.
  10. Abrasion Resistance: ASTM D-4060, 0.07 gm loss.
  11. Resistance to Fungi Growth: ASTM G21, Rated 0 (no growth).
  12. Resistance to Mold Growth: ASTM D-3273, Rated 10 (highest resistance).

## PART 3 EXECUTION

### 3.1 EXAMINATION

- A. Verification of Conditions.
1. Inspect all surfaces to receive urethane cement flooring. Verify that surfaces are dry, clean, and free of contaminants that would prevent Temper-Crete from properly adhering to the surface and that the substrate is satisfactory for installation and complies with requirements specified.
  2. Conduct calcium chloride testing according to ASTM F1869.

3. Conduct surface profile inspection according to ICRI Technical Guideline No.03732.
4. Before starting work report in writing to the authority having jurisdiction any unsatisfactory conditions.

### **3.2 PREPARATION**

- A. General
  1. All concrete substrates shall 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 shall be removed prior to application.
  2. Moisture Testing: All concrete should be tested for moisture before applying a seamless coating.
    - a. Perform relative humidity test in accordance with ASTM F2170. If relative humidity (RH) exceeds 90%, contact the manufacturer before application.
    - b. Perform moisture vapor emission rate measurement in accordance with ASTM F1869. If vapor drive exceeds 15 lbs/1,000 sq. ft./24 hrs., contact the manufacturer before application.
  3. Mechanical Surface Preparation
    - a. Prepare surfaces using methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
    - b. Create a surface profile of CSP 3-4 as described by the International Concrete Repair Institute (ICRI).
    - c. Anchor grooves/keyways should be cut six inches from all free edges, walls, perimeters, drains and both sides of joints.
    - d. Cracks, spawls and other imperfections in the substrate should be treated per manufactures recommendations.
    - e. Joints: Moving expansion joints should be honored and treated per manufactures recommendations.
    - f. Clean Surfaces thoroughly prior to installation.

### **3.3 APPLICATION**

- A. Install coatings in accordance with the most up-to-date manufacturer's instructions.
- B. Mix multi-component materials in accordance with manufacturer's instructions.
- C. Use application equipment, tools, and techniques in accordance with manufacturer's instructions.
- D. Uniformly apply coatings at spread rates and in number of coats to achieve specified mil thickness recommended by the manufacturer.
  1. Install integral cove base where indicated on the contract drawings and according to manufacturer's instructions.
  2. All terminations, transitions and details such as: drains, walls and doorways shall be treated per the manufacturer's recommendations.
- E. Adhere to all limitations, instructions, and cautions for resinous coatings as stated in the manufacturer's published literature.

### **3.5 FIELD QUALITY CONTROL**

- A. Verify coatings and other materials are as specified.
- B. Verify coverage rates of the system as work progresses. Areas found not to meet the required thickness shall receive additional material until specified thickness is attained.
- C. Manufacturer's representative shall provide technical assistance and guidance for surface preparation and application of coating systems.

### **3.6 PROTECTION AND CLEAN-UP**

- A. Light foot traffic should be permitted after 18 hours. Heavy traffic and exposure to moisture and chemicals should be permitted after 72 hours. .
- B. Protect finished surfaces of coating system from damage during construction.
- C. Touch-up, repair or replace damaged flooring system after substantial completion.
- D. Clean area and remove all debris upon completion of work. Dispose of empty containers properly according to current Local, State and Federal regulations.

### **3.7 MAINTENANCE**

- A. Contractor shall provide to owner, maintenance and cleaning instructions for the floor system upon completion of work. Owner is required to clean and maintain the surfaces to maintain manufacturer's warranty.

#### **END OF SECTION**

*This guide specification has been prepared by Westcoat Specialty Coating Systems to assist design professionals in developing a project specific specification. This guide is a template that must be reviewed and adapted by specifiers to comply with project requirements. This guide specification is not to be copied directly into a project specification manual without review.*



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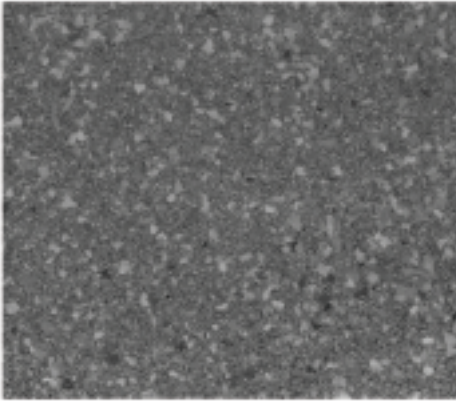
# COLOR CHART



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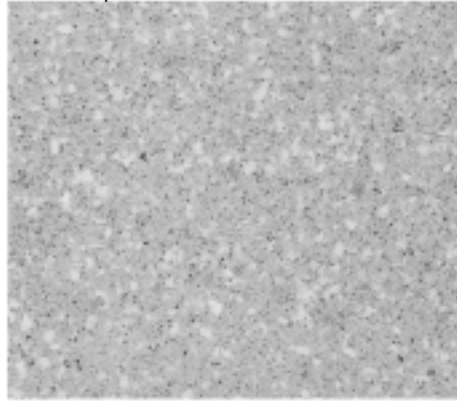
# TC-62 TIDALSTONE AGGREGATE BLENDS

Cambria | 180



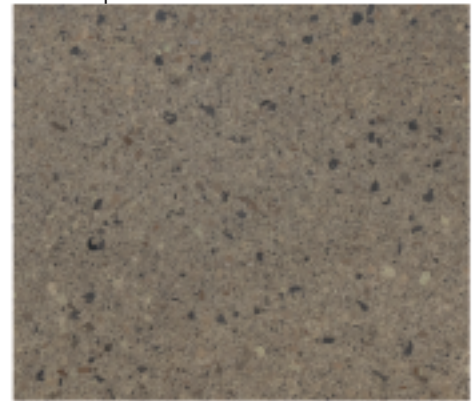
Over Black

Avalon | 182



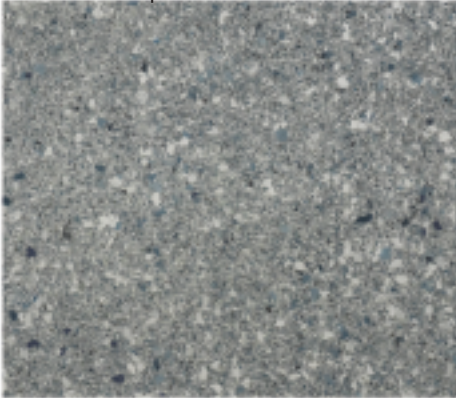
Over Cape Cod Gray

Malibu | 187



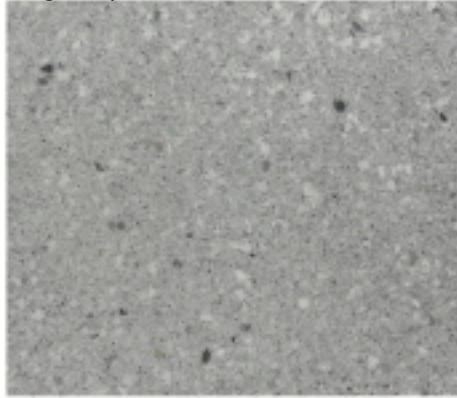
Over Deep Tan

Mendocino | 183



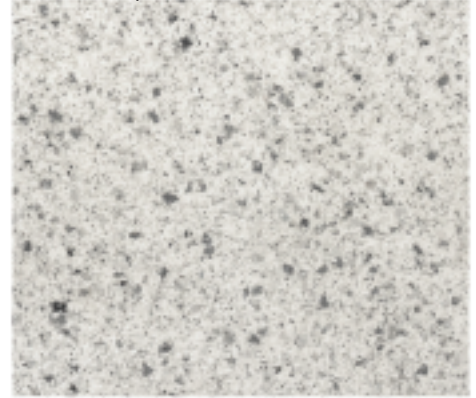
Over Stone Gray

Laguna | 184



Over Cape Cod Gray

Hermosa | 185



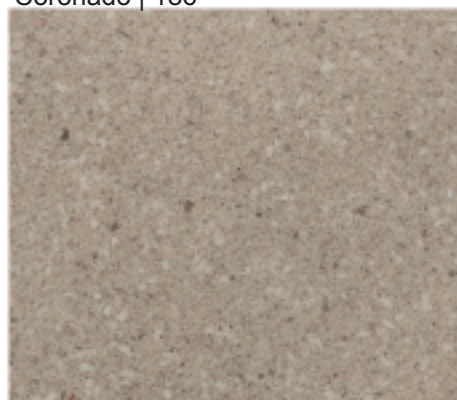
Over White

Solana | 188



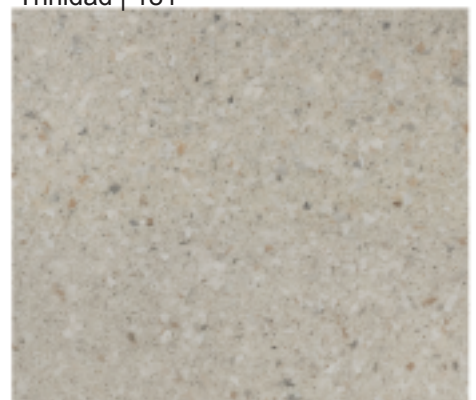
Over Concrete Gray

Coronado | 186



Over Deep Tan

Trinidad | 181



Over Travatan



## CAUTION:

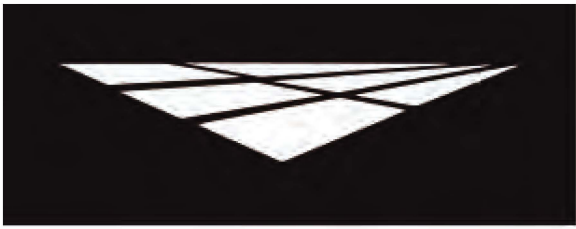
Color will vary between products and sheens. This chart is for reference only. Please request an actual color sample and apply sample on site before beginning any project.





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# **SAMPLE WARRANTY**



# WARRANTY

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## WESTCOAT TIDALSTONE™ HIGH BUILD MATERIAL WARRANTY

Subject to the conditions, limitations and requirements set forth below, Westcoat warrants the Westcoat TIDALSTONE™ materials to be free of defects in the material for a period of one (1) year from the date of original purchase of the materials provided that the materials are installed by a professional applicator with experience installing the Westcoat TIDALSTONE™ subject to all terms and conditions set forth below.

If the Westcoat TIDALSTONE™ materials fail due to defects within the warranty period, Westcoat, in its sole discretion, will either provide replacement materials for the defective TIDALSTONE™ materials or reimburse the original purchaser in an amount not to exceed the original cost of the materials. Westcoat shall in no way be responsible or liable for any labor costs or any incidental or consequential damages, including without limitation, economic losses, lost profits, business interruption, loss of use, contribution, indemnity or other losses arising from the use of the TIDALSTONE™ materials.

This warranty is limited to the original purchases and is non-transferable. This warranty is void if the TIDALSTONE™ materials are: not properly maintained; not installed pursuant to the current system information sheet; and/or applied at any area that is not built in accordance with applicable building codes. The warranty is also void if all of the materials are not purchased from an authorized distributor of Westcoat.

This warranty does not apply to and Westcoat has no responsibility or liability for: (1) the condition or movement of the substrate; (2) moisture rising from substrate and/or efflorescence; (3) the loss of gloss, fading or cleaning; (4) repairs and/or maintenance of the sealer and texture coat (5) waterproofing of any sort; (6) abuse or misuse of the materials; or (7) improper installation; or (8) surfaces less than 3,500 psi concrete.

THIS MATERIAL WARRANTY AND THE REMEDIES PROVIDED HEREUNDER ARE EXCLUSIVE AND GIVEN IN LIEU OF ALL OTHER WARRANTIES (WHETHER WRITTEN, ORAL, IMPLIED OR STATUTORY). THERE ARE NO OTHER WARRANTIES, EITHER EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, THAT EXTEND BEYOND THAT SPECIFICALLY DESCRIBED HEREIN. PURCHASER'S SOLE AND EXCLUSIVE REMEDY AGAINST THE MANUFACTURERS OF WESTCOAT, INCLUDING CLAIMS BASED UPON THE MANUFACTURER'S NEGLIGENCE OR STRICT LIABILITY, SHALL BE LIMITED SOLELY TO THE REPLACEMENT OF ANY DEFECTIVE TIDALSTONE™ MATERIAL OR A PAYMENT BY THE MANUFACTURER IN AN AMOUNT EQUAL TO THE COST OF THE ORIGINAL TIDALSTONE™ MATERIAL.

The Westcoat TIDALSTONE™ system requires a maintenance topcoat as specified every two to four years (depending on ultraviolet exposure and/or traffic) as determined by a Westcoat QCA, licensed contractor or design professional. Inspections are required one year after installation and every two years thereafter by a Westcoat QCA, licensed contractor or design professional. The record of the inspection must be kept in writing and entitlement to the benefits of this warranty require the purchaser to show proof of purchase of the materials and the record of inspection(s).

All claims arising from any defect in the TIDALSTONE™ materials or under this Warranty shall be made, in writing, to Westcoat within ninety (90) days of the discovery of the alleged defect and within the time period of this warranty. Upon notification, Westcoat shall have the right to inspect and determine course of repair. The absence of a written claim within this time period shall constitute a waiver of all claims, rights and damages against Westcoat, and its affiliates. This warranty shall not toll or extend any statute of limitation applicable to a claim of negligence, breach of contract or strict liability against Westcoat.

Any and all disputes, claims or damages arising out of the use of TIDALSTONE™ materials or this Warranty shall be arbitrated in the County of San Diego, State of California, utilizing the services of a neutral dispute resolution service upon which the purchaser and Westcoat agree, or if they cannot agree, utilizing the services of the American Arbitration Association. The purchaser and Westcoat hereby waive any right they may have to have a jury decide any dispute.



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# GENERAL MAINTENANCE





## INTERIOR COATINGS

Westcoat interior coating systems (including systems such as Thin Film, Grind and Seal, Dubro Quartz, etc.) offer durable, high-performance, long lasting surfaces that are designed to provide years of service against normal wear and usage. Seamless flooring allows for greater ease of cleaning, compared to traditional resilient flooring, due to the absence of cracks, seams, and crevices that can trap dirt and contaminants. To extend the service life of your Westcoat system, it is recommended to implement a routine cleaning regimen and have periodic inspections. This information is a basic guideline only.

### **Routine Cleaning**

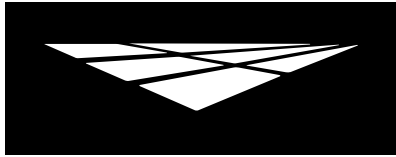
All coating systems require maintenance and upkeep to ensure continued performance and to maximize the life of the system. Maintenance methods may vary depending on the system, texture, topcoat or sealer, environment conditions, slope, drainage, volume and type of traffic, and use of space.

Ensure that the coating surface is free from debris, such as sand, gravel, metals, or other abrasives that can result in premature wear of the topcoat or sealer. Grease, oils, and other contaminants should be removed promptly to maintain the surface. Establish a routine maintenance schedule for all flooring systems. Be sure to test all cleaning agents in an unnoticeable area to ensure compatibility. Refer to the manufacturer's instructions and dilution rates for all cleaning agents. Routine cleaning can be achieved by using a mild cleaning solution, such as "Simple Green", neutral pH detergent, or soap. Be sure to use clean mops and change out cleaning solution regularly. Utilize a brush, broom, or mechanical scrubber to help agitate and loosen up dirt and debris, especially on textured floors. Ensure that the surface is rinsed with clean water thoroughly. Do not allow cleaning agents to dry on the surface. Buildup of residue or other foreign elements can make cleaning more difficult and can also negatively affect the slip-resistance of the surface.

Floor auto-scrubbing machines can be used for larger areas. Avoid using abrasive pads or brushes and use long, soft brushes. Do not allow buildup of residue or other foreign materials, as this can result in a surface that is slippery when wet. Do not use metal-based or coarse brushes, as they may damage the surface.

### **Wax and Floor Finishes**

Westcoat interior coating systems do not typically require a wax or a floor finish material. That said, in some cases where heavy traffic is present or where you may desire to enhance the finish, a standard, commercial floor finish that is intended for use with resinous materials can be applied. Prior to application, ensure that the surface is clean and free from any debris or wax. Apply and



## INTERIOR COATINGS

maintain wax or floor finish per the manufacturer's guidelines. Wax or floor finishes will need to be completely removed prior to reseal application.

### Maintenance and Inspections

All interior coating systems should be periodically inspected and regularly maintained by a Westcoat Qualified Contractor Applicator (QCA). Inspections are required one year after installation and every two years thereafter by a factory authorized representative. After 3-5 years, a "reseal" (thorough cleaning and reapplication of Westcoat topcoat/sealer) may be required. Existing sealer or coating should be abraded and wiped with solvent before application of topcoat or sealer. Some topcoats and sealers may require additional preparation prior to recoating. Should damage occur, be sure to contact the original Westcoat applicator to inspect and repair the coating system immediately.

### Best Practices

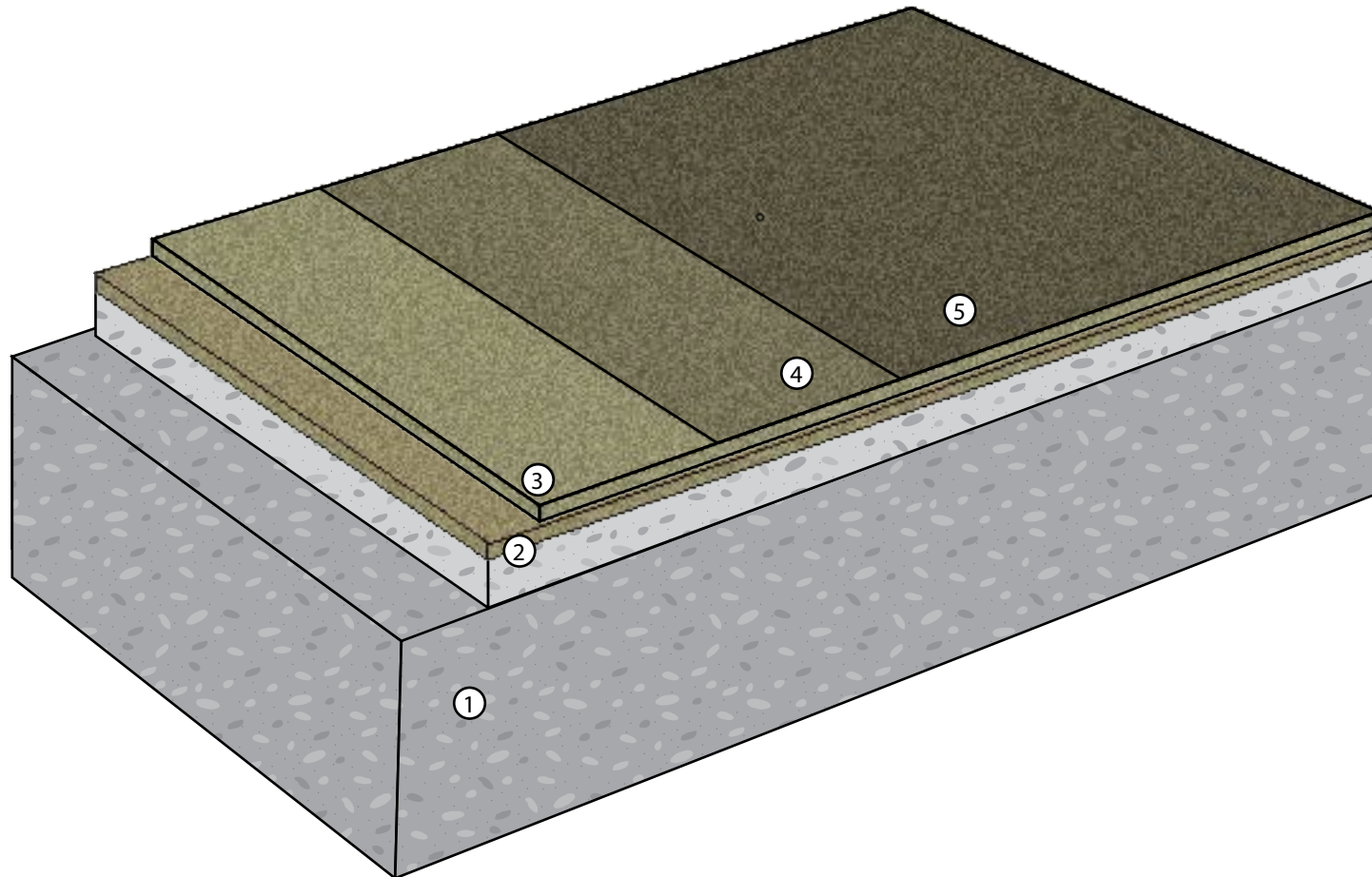
- Do not expose the coating surface to traffic, moisture, or chemical agents until system is fully cured.
- Immediately clean up and rinse off any chemical solutions that may stain or damage the surface.
- Do not subject the floor coating system to chemicals that it is not compatible or resistant to.
- Avoid dragging metal, concrete, pallets, or other types of objects with sharp edges across the floor.
- Rolling loads with steel casters can potentially damage the surface and should be avoided.
- Avoid ponding or standing water by ensuring that positive drainage is present before applying the floor coating system.
- Water should not be allowed to enter the flooring system through penetrations, joints, or edges.
- Furniture should have protective coasters or pads to prevent from indentations or damage.
- Tape and other adhesives should not be applied to finished floors as, this may damage the surface.

Any information provided by Westcoat Specialty Coating Systems is for general purposes only. Nothing presented by Westcoat Specialty Coating Systems constitutes design advice or a recommendation specific to a particular situation. Westcoat Specialty Coating Systems directs you to consult with the appropriate qualified design professional to ensure any product or information meets the requirements for the specific intended use, and complies with all building plans, specifications, codes or regulations. Westcoat Specialty Coating Systems expressly and specifically disclaims responsibility for any damages arising from the use of any information, and each recipient of this information agrees that there is no express or implied warranty, including any implied warranty of merchantability or fitness for a particular purpose, arising from any information provided by Westcoat Specialty Coating Systems.



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# ARCHITECTURAL DETAILS



## KEYNOTES

- ① Concrete Substrate
- ② Temper-Crete Coat & Broadcast Coat
- ③ 2nd Broadcast Coat
- ④ Polyaspartic Topcoats
- ⑤ WB Flat Polyurethane Sealer

- Concrete must be a minimum 3,500 PSI.
- Concrete must be cured for a minimum 14 days.
- Concrete should be prepared to a profile equal to ICRI CSP 3-4.
- Refer to local building codes and standards.
- Refer to all Product and System Specifications for additional information.

REV. 2/16/23

TIDALSTONE FLOORING SYSTEM - HIGH BUILD - SYSTEM OVERVIEW

DIVISION 09 67 23  
Fluid-Applied Flooring

SCALE : NTS

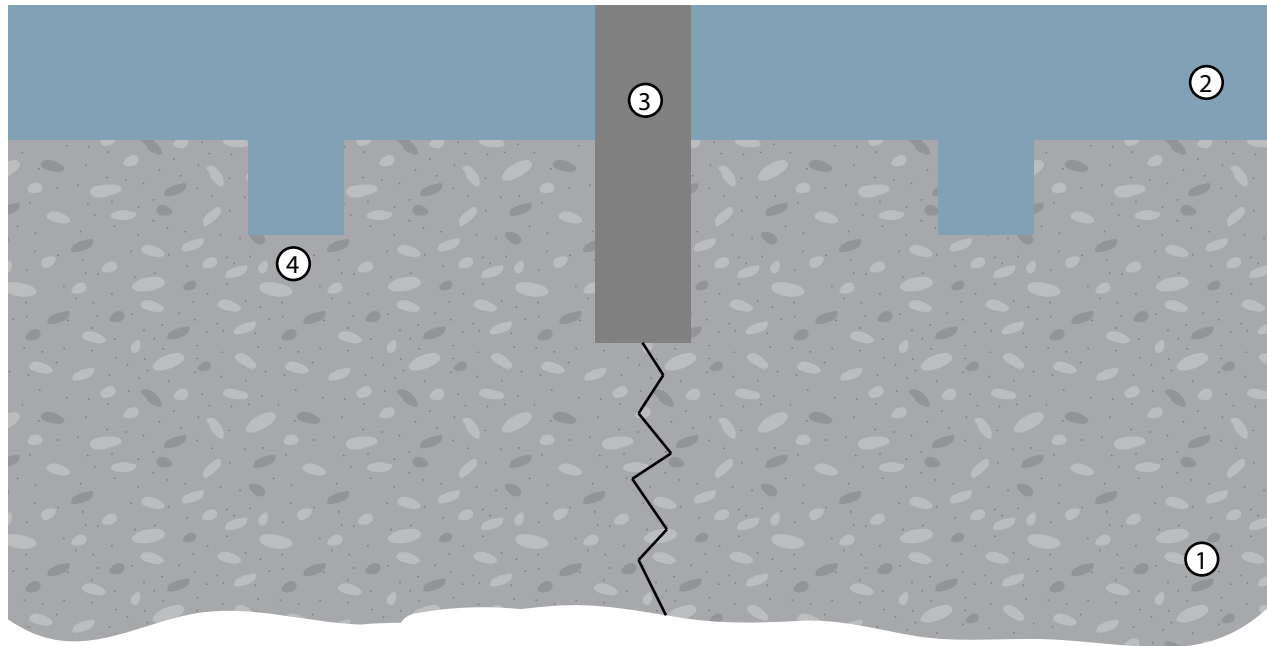


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# KEYNOTES

- ① Concrete Substrate
- ② Temper-Crete Coat
- ③ Flexible Joint Sealant
- ④ Anchor Keyway



- Concrete must be a minimum 3,500 PSI.
- Concrete must be cured for a minimum 14 days.
- Control joint should be cut down ~ 1/3 the depth of the substrate.
- Concrete should be prepared to a profile equal to ICRI CSP 3-6.
- Refer to local building codes and standards.
- Refer to all Product and System Specifications for additional information.

REV. 1/20/19 TC

## TEMPER-CRETE - CONTROL JOINT (MOVEMENT)

DIVISION 09 67 23  
Resinous Flooring

SCALE : NTS

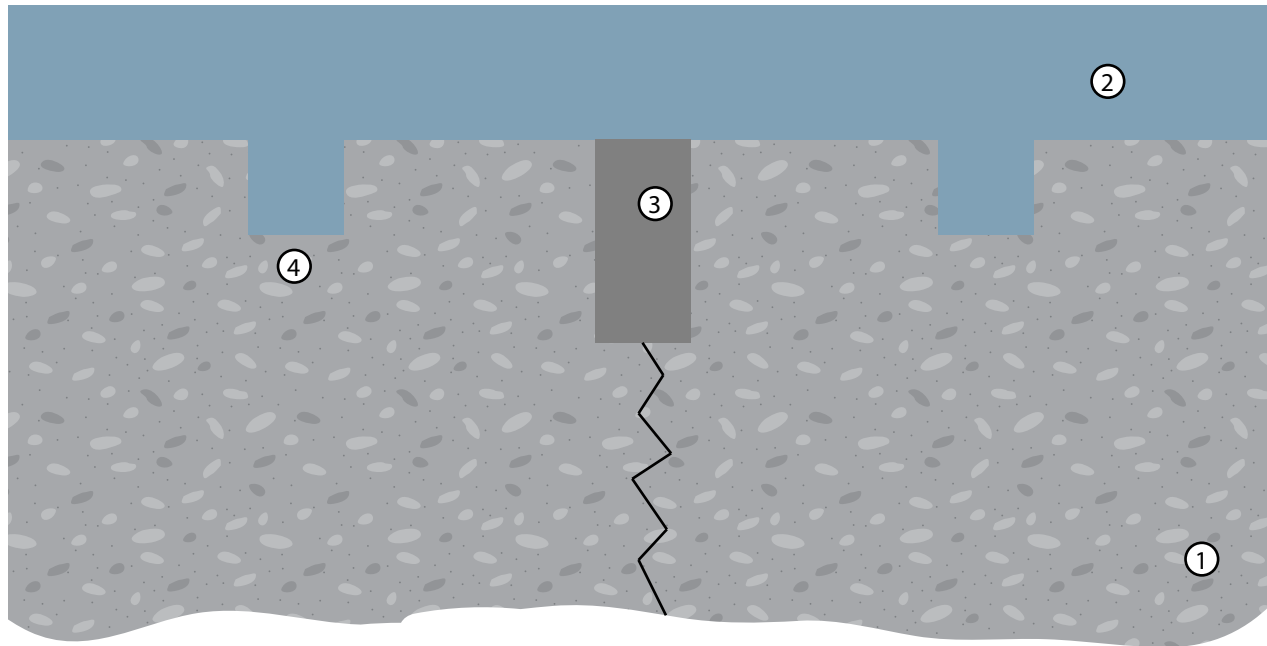


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# KEYNOTES

- ① Concrete Substrate
- ② Temper-Crete Coat
- ③ Rigid Patching Material
- ④ Anchor Keyway



- Concrete must be a minimum 3,500 PSI.
- Concrete must be cured for a minimum 14 days.
- Control joint should be cut down ~ 1/3 the depth of the substrate.
- Concrete should be prepared to a profile equal to ICRI CSP 3-5.
- Refer to local building codes and standards.
- Refer to all Product and System Specifications for additional information.

REV. 6-2-22 TC

## TEMPER-CRETE - CONTROL JOINT (NO MOVEMENT)

DIVISION 09 67 23  
Resinous Flooring

SCALE : NTS

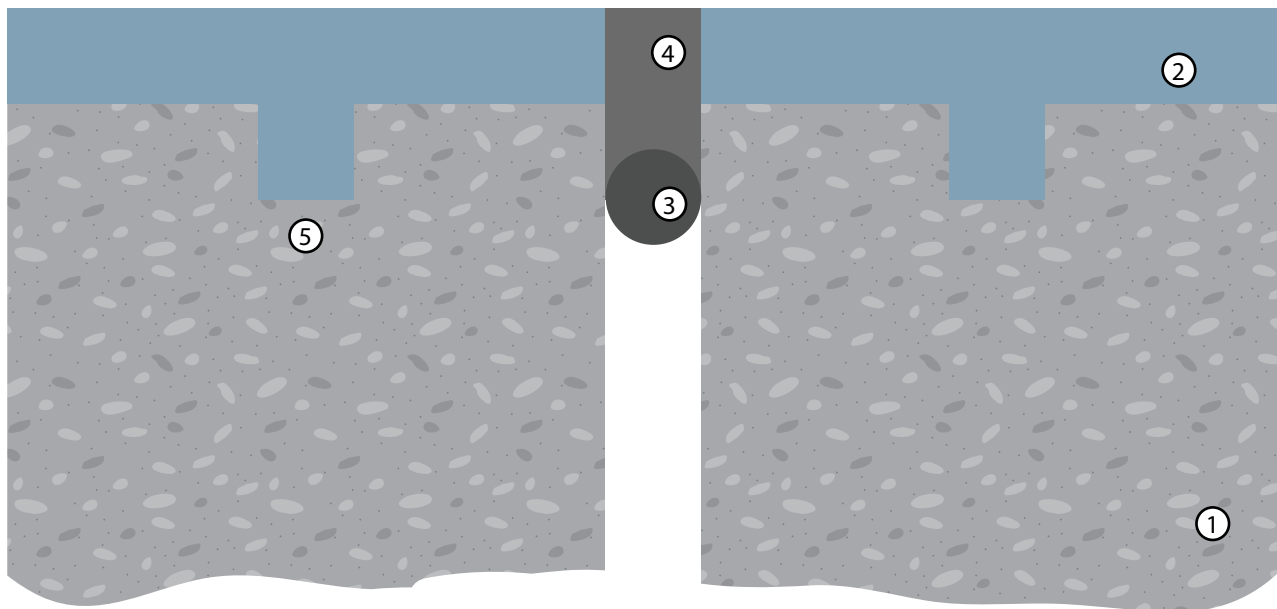


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## KEYNOTES

- ① Concrete Substrate
- ② Temper-Crete Coat
- ③ Backer Rod
- ④ Joint Sealant
- ⑤ Anchor Keyway



- Concrete must be a minimum 3,500 PSI.
- Concrete must be cured for a minimum 14 days.
- Concrete should be prepared to a profile equal to ICRI CSP 3-5.
- Refer to local building codes and standards.
- Refer to all Product and System Specifications for additional information.

REV. 6-2-22 TC

## TEMPER-CRETE - EXPANSION JOINT

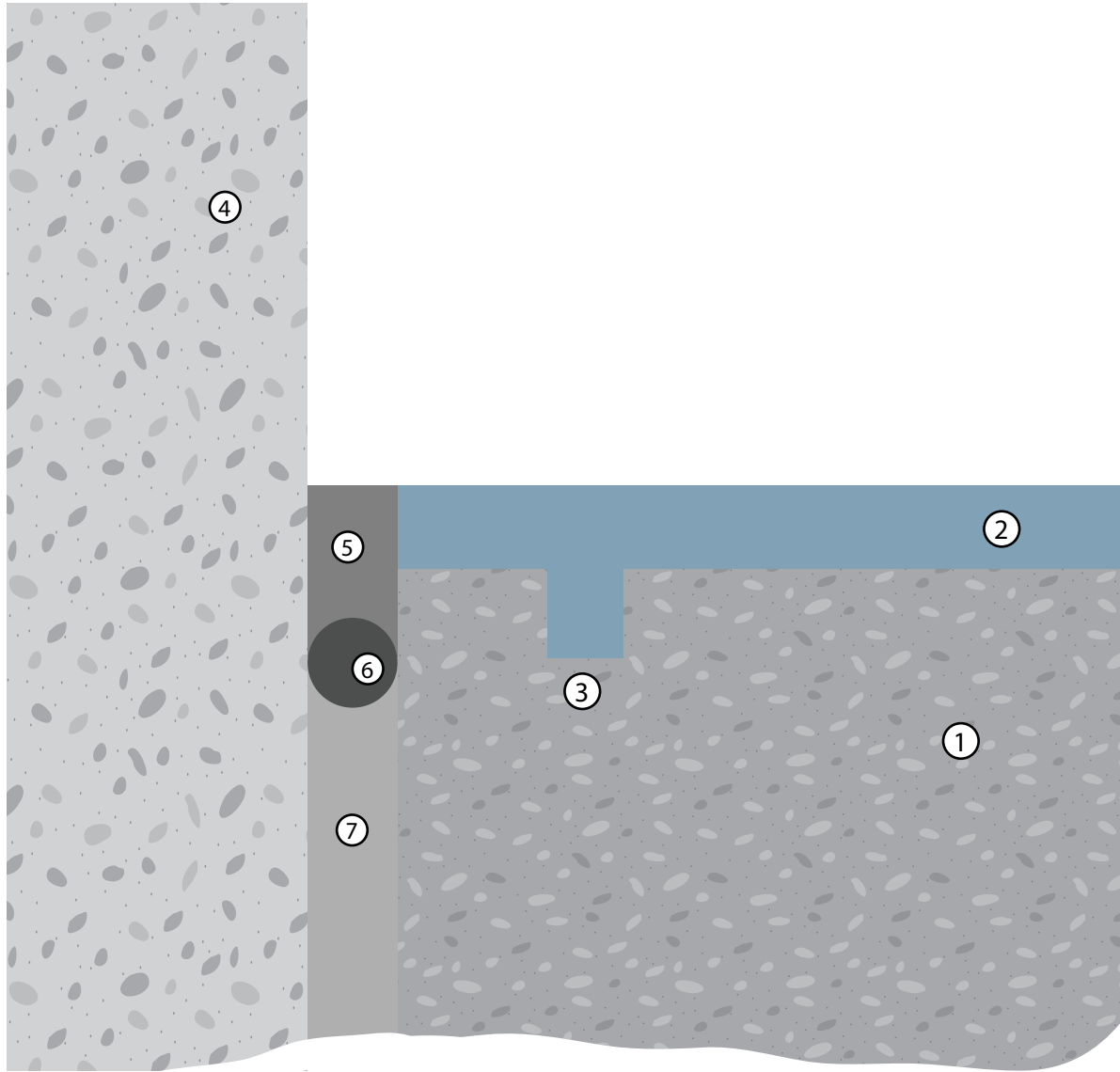
DIVISION 09 67 23  
Resinous Flooring

SCALE : NTS



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# KEYNOTES

- ① Concrete Substrate
- ② Temper-Crete Coat
- ③ Anchor Keyway
- ④ Wall
- ⑤ Backer Rod
- ⑥ Flexible Joint Sealant
- ⑦ Existing Isolation Joint Material

- Concrete must be a minimum 3,500 PSI.
- Concrete must be cured for a minimum 14 days.
- Concrete should be prepared to a profile equal to ICRI CSP 3-5.
- Refer to local building codes and standards.
- Refer to all Product and System Specifications for additional information.

REV. 6-2-22 TC

## TEMPER-CRETE - ISOLATION JOINT

DIVISION 09 67 23  
Resinous Flooring

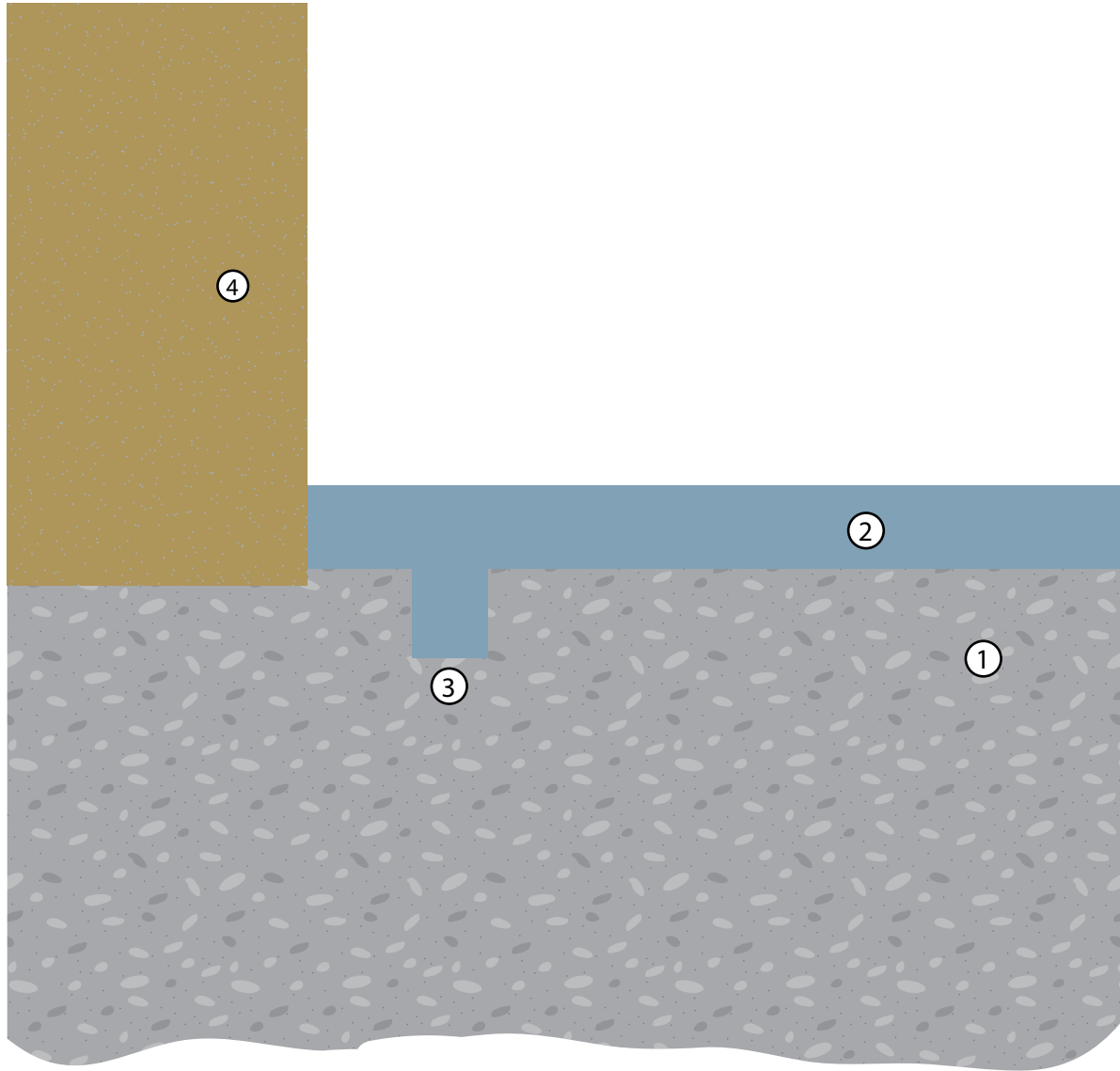
SCALE : NTS



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## KEYNOTES

- ① Concrete Substrate
- ② Temper-Crete Coat
- ③ Anchor Keyway
- ④ Wall

- Concrete must be a minimum 3,500 PSI.
- Concrete must be cured for a minimum 14 days.
- Concrete should be prepared to a profile equal to ICRI CSP 3-5.
- Refer to local building codes and standards.
- Refer to all Product and System Specifications for additional information.

REV. 6-2-22 TC

## TEMPER-CRETE - WALL TERMINATION

DIVISION 09 67 23  
Resinous Flooring

SCALE : NTS

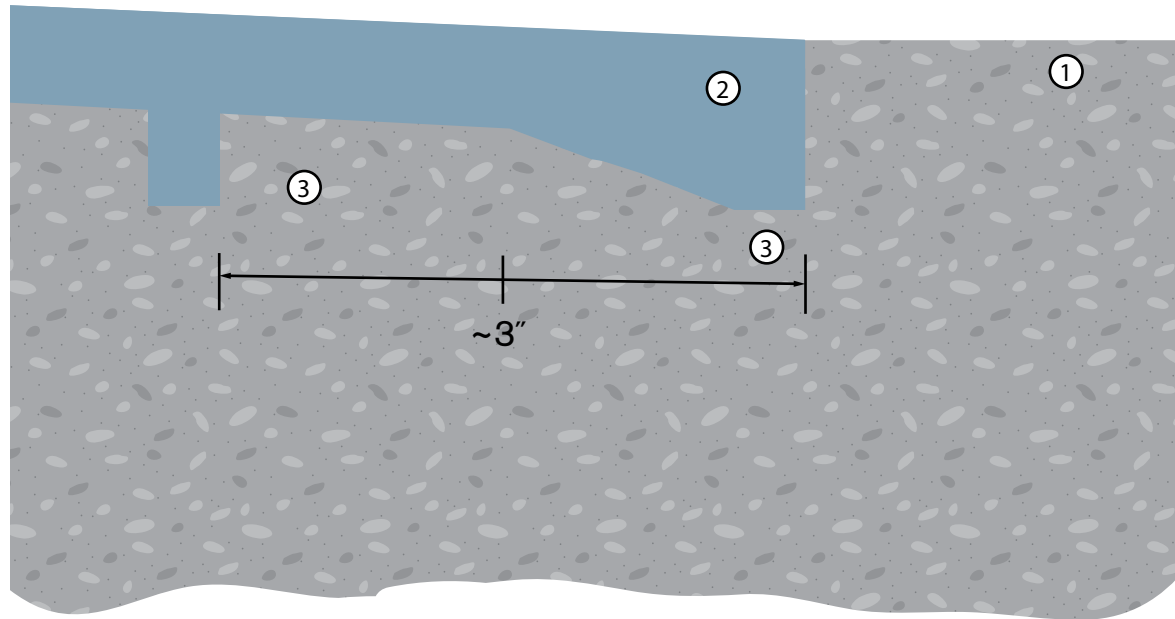


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# KEYNOTES

- ① Existing Flooring
- ② Temper-Crete Coat
- ③ Anchor Keyway



- Make ~3/8" saw cut adjacent to existing flooring for termination of Temper-Crete Coat.
- Concrete must be a minimum 3,500 PSI.
- Concrete must be cured for a minimum 14 days.
- Concrete should be prepared to a profile equal to ICRI CSP 3-5.
- Refer to local building codes and standards.
- Refer to all Product and System Specifications for additional information.

REV. 1/20/19 TC

## TEMPER-CRETE - KEYED EDGE TERMINATION

DIVISION 09 67 23  
Resinous Flooring

SCALE : As Noted

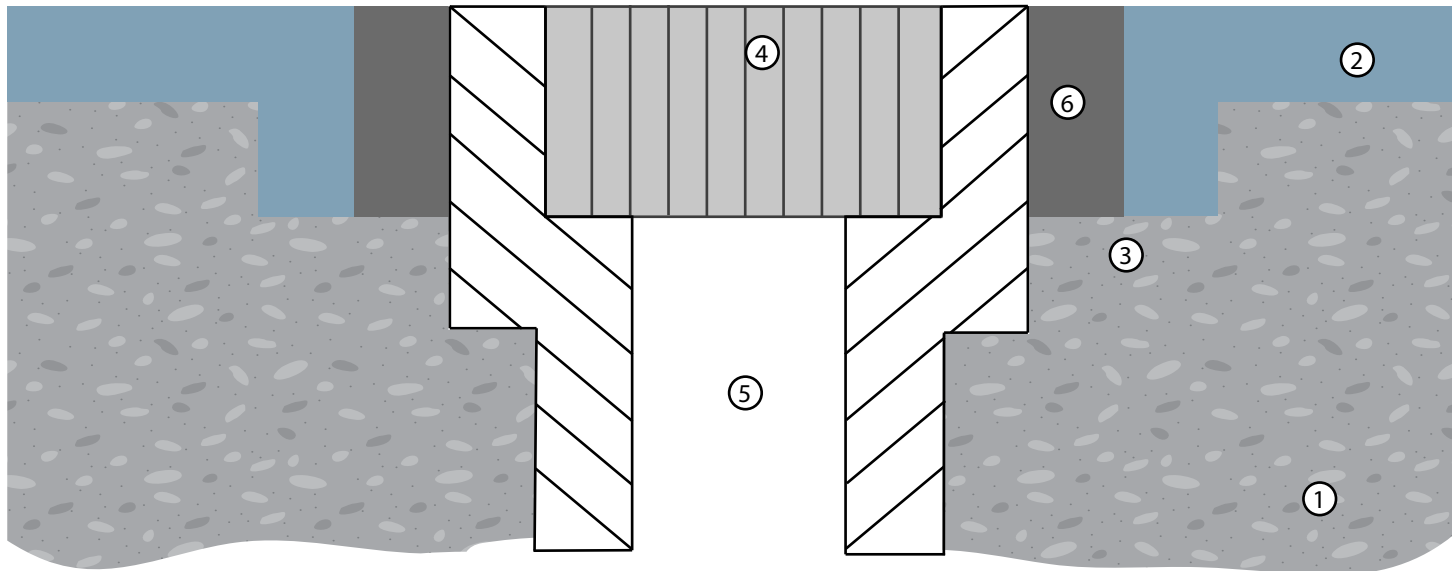


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# KEYNOTES

- ① Concrete Substrate
- ② Temper-Crete Coat
- ③ Anchor Groove/Keyway
- ④ Drain Cover
- ⑤ Drain Trench
- ⑥ Joint Sealant



- Concrete must be a minimum 3,500 PSI.
- Concrete must be cured for a minimum 14 days.
- Concrete should be prepared to a profile equal to ICRI CSP 3-5.
- Refer to local building codes and standards.
- Refer to all Product and System Specifications for additional information.

REV. 6-2-22 TC

## TEMPER-CRETE - TRENCH DRAIN TERMINATION

DIVISION 09 67 23  
Resinous Flooring

SCALE : NTS

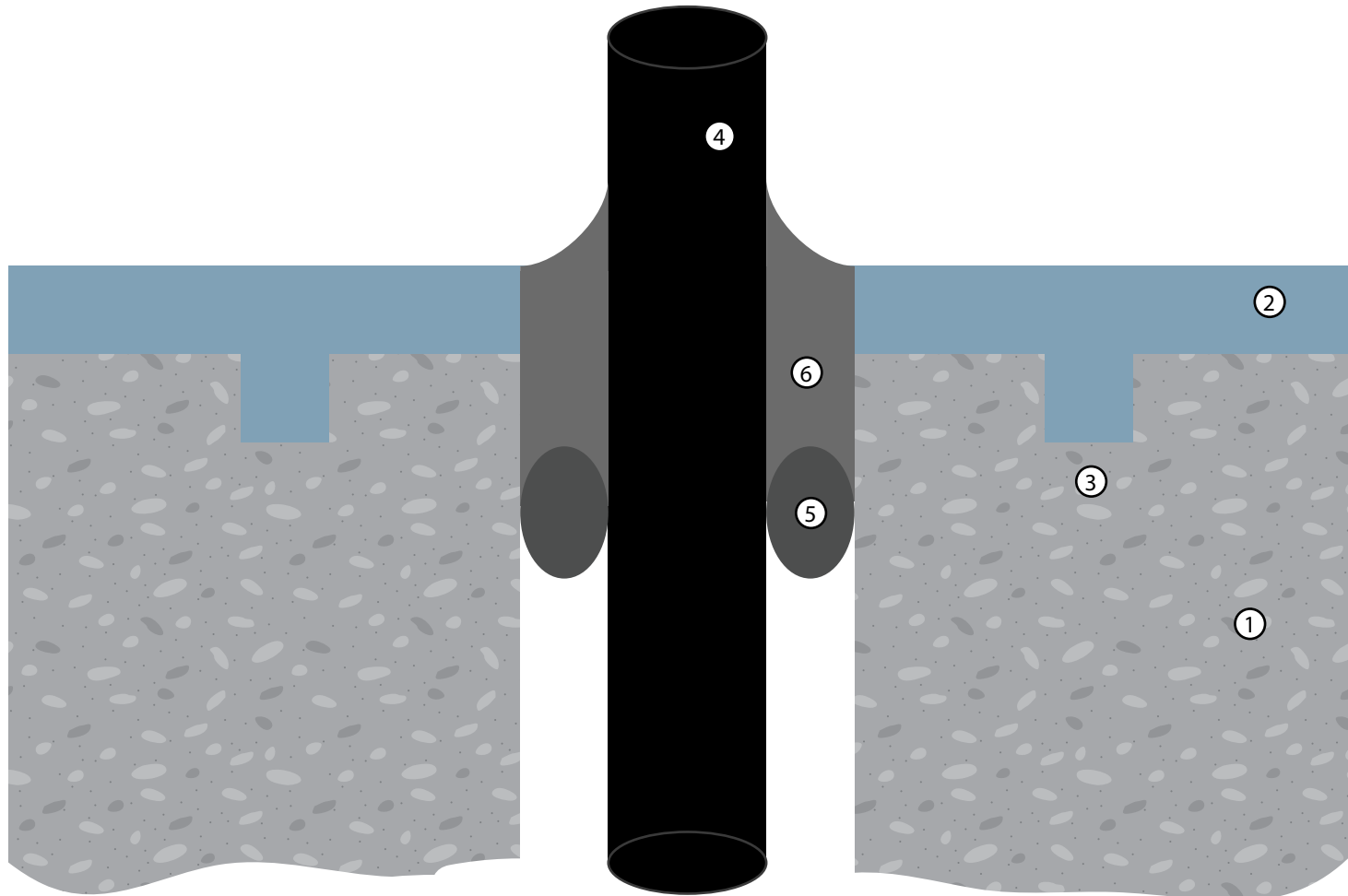


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# KEYNOTES

- ① Concrete Substrate
- ② Temper-Crete Coat
- ③ Anchor Keyway
- ④ Pipe/Duct
- ⑤ Backer Rod
- ⑥ Joint Filler



- Concrete must be a minimum 3,500 PSI.
- Concrete must be cured for a minimum 14 days.
- Concrete should be prepared to a profile equal to ICRI CSP 3-5.
- Refer to local building codes and standards.
- Refer to all Product and System Specifications for additional information.

REV. 6-2-22 TC

## TEMPER-CRETE - PIPE/DUCT PENETRATION THROUGH FLOOR

DIVISION 09 67 23  
Resinous Flooring

SCALE : NTS



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