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Liquid Granite[™] and Liquid Terrazzo[™]

Simulate the elegance of granite or terrazzo floors. Liquid Granite and Liquid Terrazzo combine epoxy and color chips to create decorative coatings. seamless. floor Designed for use in showrooms, restaurants, garages, recreation rooms, washrooms, and kitchens, Liquid Granite and Liquid Terrazzo chemical resistant coatings are and seamless, perfect for both residential and commercial applications.





If water-pased and 100% solids epoxies are specially formulated for amless and high build applications. Perfect for industrial floors in ctories, restaurant kitchens, schools, hospitals, garage floors, and arehouses, the Epoxy Coat product line delivers strong, long-lasting statistics and user to place product size.



770 Gateway Center Drive San Diego, CA 92102 800•250•4519 • Fax 619•262•8606 • westcoat.com



FOR PROFESSIONAL USE ONLY

Extremely long wearing

Liquid Granite and Liquid Terrazzo promise durability in both residential and commercial applications. This protective surface will withstand foot and light vehicle traffic.

Easy clean-up

Spend less time on messes. These systems ensure quick and easy clean-up using many common household cleaners.

Low odor available

100% solids or water-based materials offer low odor applications for sensitive areas. Be sure to specify low odor for all occupied areas.

Low build or high build

At approximately 1/16", these systems will not be a trip hazard. If required, higher build systems can be specified to help eliminate substrate imperfections from telegraphing through.

Versatile

Can be installed over plywood when used in conjunction with Westcoat's ALX system. Available in 16 Color Chip blends, allowing for hundreds of variations when color base is varied.

One day process available

A fast drying two coat system can be installed when one day is all you have. For most installations allow 2-3 days.

Advantages

• Durable

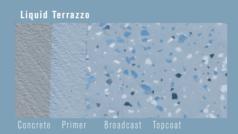
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- USDA compliant
- Seamless
- Fasy to clea
- Chemical resist
- 100% solids and water-based systems
- •"One dav" svstems
- Low odor
- Decorative
- High build
- Wide range of pre-blended colors
- Cost-effective

Liquid Granite



oncrete Primer Broadcast lopcoat







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Description

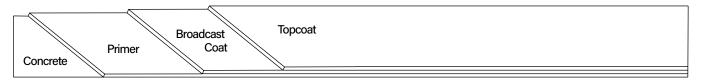
Westcoat's Liquid Granite[™] and Liquid Terrazzo[™] are 100% solids epoxy floor coating systems with color chips broadcast into the pigmented epoxy and sealed with a clear topcoat. The Liquid Granite[™] is a full broadcast color system and the Liquid Terrazzo™ is a light broadcast color system.

SPECIALTY COATING SYSTEMS

Uses

Liquid Granite[™] and Liquid Terrazzo[™] are designed for use in showrooms, restaurants, garages, recreation rooms, washrooms and kitchens. These systems are a decorative, durable, chemical resistant coating, which makes it perfect for residential and commercial applications. Liquid Granite[™] and Liquid Terrazzo[™] are designed to be used as a light duty coating.

System Overview



System Data					
Coverages	Primer 250-300 ft² per gallon	Epoxy Broadcast Coat 175-225 ft ² per gallon	Color Chip Granite Look 10 ft ² per pound	Color Chip Terrazzo Look 100 ft² per pound	Topcoat 200-300 ft² per gallon
Components	EC-72 Epoxy Patch Gel EC-12 Epoxy Primer EC-34 Epoxy Topcoat EC-32 Clear Epoxy Topcoat TC-60 Color Chips		Shelf Life 2 years 2 years 2 years 2 years n/a		

Advantages

USDA Compliant • Chemical Resistant • 100% Solids • High Build • Seamless • Easy Clean Up • Durable • Decorative • Choice of Colors • Can be Installed Solvent Free

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.





SYSTEM

SPECIFICATION

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 2-3 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.

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<u>SPECIALTY COATING SYSTEMS</u>

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 Liquid Granite[™] or Liquid Terrazzo[™] 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

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. Be sure to apply up cove to termination point.

Broadcast Coat

Mix 2 parts A and 1 part B (by volume) of EC-34 Epoxy Topcoat. For color consistency, box all part A's. Apply at the rate of 175-225 square feet per gallon.

Granite Look: Broadcast pre-mixed color chips into the wet EC-34 to refusal (until no shiny spots are evident), at approximately 10 square feet per pound. After the EC-34 has cured, sweep excess chips and sand or scrape aggressively with a drywall scraper. Sweep again and vacuum loose chips.

Terrazzo Look: Sprinkle pre-mixed color chips into the wet base coat evenly at approximately 100 square feet per pound. After the base coat has cured, you may scrape or lightly sand the surface to smooth the chips. Sweep, blow or vacuum any loose chips.





SYSTEM

SPECIFICATION

Topcoat

Mix 2 parts A and 1 part B (by volume) of EC-32 Clear Epoxy Topcoat. Mix completely for 4-5 minutes and immediately get the mix onto the floor. Apply EC-32 Clear Epoxy Topcoat at approximately 200-250 square feet per gallon. Do not allow material to sit in the mixing bucket. After the topcoat has dried, you may sand or scrape rough spots and apply a second coat of EC-32 at approximately 200-300 square feet per gallon.

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<u>SPECIALTY COATING SYSTEMS</u>

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.

Prohibit traffic on floor for 48 hours after installation. Avoid heavy abrasion and chemical exposure for 5 days. Allow 72 hours minimum for vehicular traffic.

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

• For smaller projects, EC-36 100% Solids Epoxy plus the desired CA-36 Epoxy Color Pack can be used in lieu of EC-34 for the Broadcast Coat.

Topcoat

• For smaller projects, EC-36 100% Solids Epoxy can be used in lieu of EC-32 for the Topcoat. Water-Based System

• For a completely water-based, faster installation, EC-11 Water-Based Epoxy may be used for the primer, broadcast coat and topcoat applications.

Polyaspartic Option

- For greater UV protection and faster installation, EC-101 Polyaspartic 100% Solids may be used for the broadcast coat and topcoat applications.
- For Vehicular Traffic, it is recommended to use EC-102 Polyaspartic. EC-102 may be used for the broadcast coat and topcoat applications and provides greater UV protection and chemical resistance.

Skid Resistance

- CA-30 Small Safe Grip or CA-31 Large Safe Grip can be added to the EC-32 to produce a skidresistant 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 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.

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SPECIALTY COATING SYSTEMS

The Liquid Granite/Terrazzo[™] 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.
- 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.





DURABLE RESINS & HARDENERS

Liquid Granite[™] and Liquid Terrazzo[™]

SYSTEM SPECIFICATION

Color Chip Blend	Liquid Granite™ Suggested Base Colors	Liquid Terrazzo™ Suggested Base Colors
Taupe Tweed	Travatan or Deep Tan	Travatan or Deep Tan
Sandstone	Travatan	Travatan or Deep Tan
Shadow	Cape Cod Gray or Pewter Gray	Pewter Gray, Cape Cod Gray or Black
Forest	Cape Cod Gray	Travatan, Cape Cod Gray or Black
Atascadero	Travatan or Deep Tan	Travatan or Deep Tan
Dove Gray	Cape Cod Gray or Pewter Gray	Pewter Gray or Cape Cod Gray
Granite	Cape Cod Gray or Pewter Gray	Pewter Gray, Cape Cod Gray or Black
Storm Cloud	Concrete Gray or Cape Cod Gray	Pewter Gray, Cape Cod Gray or Black
Autumn	Deep Tan or Travatan	Travatan, Deep Tan or Tile Red
Niagara	Cape Cod Gray	Pewter Gray or Cape Cod Gray
Mocha Tweed	Deep Tan or Travatan	Travatan, Deep Tan or Tile Red
Desert Storm	Travatan	Travatan, Deep Tan or Black
Rose	Tile Red	Travatan or Tile Red
Cappuccino	Deep Tan	Travatan or Deep Tan
Pecan	Travatan	Travatan
Pistachio	Concrete Gray or Cape Cod Gray	Cape Cod Gray or Black

Suggested Base Colors

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SECTION 099656

EPOXY FLOOR COATINGS

PART 1 GENERAL

- 1.01 SUMMARY
 - A. Section includes: Provide a complete epoxy floor system for concrete surfaces that meet the requirements for specific use indicated in the contract documents. Include all applicable substrate testing, surface preparation, and detail work.
- 1.02 RELATED SECTIONS
 - A. Section 033000 Cast-In-Place Concrete
 - B. Section 090000 Finishes
 - D. Section 096723 Resinous Flooring

1.03 SUBMITTALS

- A. Submit under provisions of Section 013300.
- B. Product Data: Submit manufacturer's product data sheets on each product and system to be used including:
 - 1. Preparation instructions and recommendations.
 - 2. Storage and handling requirements.
 - 3. Installation methods.
 - 4. Maintenance requirements.
- C. Selection Samples: For each system specified, provide two sets of samples and color charts, representing manufacturer's full range of colors and patterns.

1.04 QUALITY ASSURANCE

- A. All materials used in the epoxy 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. Contractor shall have a minimum of 3 years experience installing epoxy floor 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. Contractor 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.

1.05 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: Store all materials in a clean, dry place with a temperature range in accordance with manufacturer's instructions.
- C. Handling: Handle products carefully to avoid damage to the containers. Read all labels and Material Safety Data Sheets prior to use.

1.06 PROJECT SITE CONDITIONS

- A. Maintain environmental conditions (temperature, humidity, and ventilation) within the limits recommended by the manufacturer.
- B. 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), see EC-15 Moisture Vapor Barrior product specification.
- C. Concrete must be at least 2500 psi.
- D. Concrete must be cured for a minimum of 28 days before coating is applied.
- E. Schedule coating work to avoid excessive dust and airborne contaminates. Protect work areas from excessive dust and airborne contaminates during coating application.
- F. 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.

1.07 WARRANTY

A. Upon completion of the work in this section provide a written warranty from the manufacturer against defects of materials for a period of 1 (one) year. To obtain project specific warranty the coating system applicator must be a Westcoat Qualified Contractor/ Applicator and apply for warranty.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Acceptable manufacturer: Westcoat Specialty Coatings; 4007 Lockridge Street, San Diego, CA 92102. Telephone 800-250-4519. Fax 619-255-7187. Website: www.westcoat.com.

2.02 MATERIALS

- A. As basis of design Westcoat Liquid Granite System (no substitutions will be accepted): 100% solids floor coating system with color chips fully broadcasted into pigmented EC-34 Epoxy Topcoat and sealed with EC-32 Epoxy Clear Topcoat.
- B. As basis of design Westcoat Liquid Terrazzo System (no substitutions will be accepted): 100% solids floor coating system with color chips lightly broadcasted into pigmented EC-34 Epoxy Topcoat and sealed with EC-32 Epoxy Clear Topcoat.

2.03 COMPONENTS

- A. Liquid Granite System: 100% Solids Epoxy with color chips fully broadcasted into base coat.
 - 1. Primer: EC-12 Epoxy Primer 250-300 square feet per gallon.
 - 2. Base Coat: EC-34 Epoxy Topcoat pigmented 175-225 square feet per gallon.

- 3. Color Chip Broadcast: TC-60 Color Chips into the wet EC-34 Epoxy Topcoat at a rate of 10 square feet per pound.
- 4. Top Coat: EC-32 Clear Epoxy Topcoat 200-300 square feet per gallon.
- B. Liquid Terrazzo System: 100% Solids Epoxy with color chips lightly broadcasted into base coat.
 - 1. Primer: EC-12 Epoxy Primer 250-300 square feet per gallon.
 - 2. Base Coat: EC-34 Epoxy Topcoat pigmented 175-225 square feet per gallon.
 - 3. Color Chip Broadcast: TC-60 Color Chips into the wet EC-34 Epoxy Topcoat at a rate of 100 square feet per pound.
 - 4. Top Coat: EC-32 Clear Epoxy Topcoat 200-300 square feet per gallon.

2.04 ACCESSORIES

- A. Supplemental Materials:
 - 1. Patching materials shall be EC-72 Epoxy Patch Gel.
 - 2. Concrete repairs can be made with TC-23 Mortar Mix as needed.
 - 3. Optional aggregate shall be CA-30 Small Safe Grip, CA-31 Large Safe Grip, or other sand designed to meet the owners skid resistance requirements.
 - 4. Optional Water Based Installation: EC-11 Water Based Epoxy may be used for the primer, broadcast coat, and topcoat applications IN LIEU of 100% solids epoxy.

Optional Topcoats:

- 5. SC-65G WB Gloss Polyurethane may be used OVER the EC-32 when a low odor, solvent free, mar and chemical/UV resistant gloss finish is required.
- 6. SC-65SG WB Semi-Gloss Polyurethane may be used OVER the EC-32 when a low odor, solvent free, mar and chemical/UV resistant semi-gloss finish is required.
- 7. SC-65F WB Flat Polyurethane may be used OVER the EC-32, SC-65G Gloss or SC-65 SG Semi-Gloss when a low odor, solvent free, mar and chemical/UV resistant flat finish is required.
- 8. EC-95G Gloss Polyurethane may be used OVER the EC-32 when a chemical/UV resistant, solvent-based gloss finish is required.
- 9. EC-95F Flat Polyurethane may be used OVER the EC-95G when a chemical/UV resistant, solvent-based satin finish is required.
- 10. EC-101 Polyaspartic 100% Solids may be used OVER the EC-32 as a non-yellowing, high gloss, quick drying, high build, mar and chemical resistant finish with outstanding wear resistance.
- 11. EC-102 Polyaspartic may be used OVER the EC-32 when tire staining is a concern. Quick drying, UV resistant, high gloss, high build, mar and chemical resistant finish.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verification of Conditions.
 - 1. Inspect all surfaces to receive epoxy flooring. 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.
 - 2. Conduct calcium chloride testing according to ASTM F1869.
 - 4. Before starting work, report in writing to the authority having jurisdiction any unsatisfactory conditions.
- 3.02 SURFACE PREPARATION

- A. Prepare surfaces using methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
- B. Shot blast or mechanically abrade the surface to achieve a surface profile equal to CSP of 2-3 as specified by ICRI.
- C. Clean Surfaces thoroughly prior to installation.
- D. Rout and clean moving cracks and joints: fill with manufacturer's recommended flexible epoxy filler material.
- E. Repair any non-moving surface deviations with manufacturer's recommended patching material.

3.03 INSTALLATION

- A. Install coatings in accordance with 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. Key in all drains, edges, and transition points according to manufacturer's instructions.
- E. Broadcast aggregates in accordance with the specified system and manufacturer's instructions.
- F. Adhere to all limitations, instructions, and cautions for epoxy coating as stated in the manufacturer's published literature.

3.04 FIELD QUALITY CONTROL

- A. Verify coatings and other materials are as specified.
- B. Verify coverages 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.

3.05 PROTECTION AND CLEAN-UP

- A. Prohibit traffic on floor for 48 hours after installation. Avoid heavy abrasion and chemical exposure for 5 days. Allow 72 hours minimum for vehicular traffic.
- 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.

3.06 MAINTENANCE

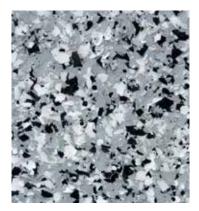
A. Contractor shall provide to owner, maintenance and cleaning instructions for the floor system upon completion of work. Owner is required to clean and maintain the surfaces to maintain manufacturer's warranty.

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.



TC-60 COLOR CHIP BLENDS



Shadow | 107



Granite | 104

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Niagara | 106



Sandstone | 109



Dove Gray | 102



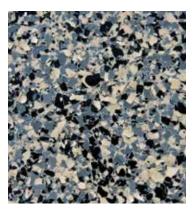
Desert Storm | 112



Atascadero | 100



Mocha Tweed | 105



Storm Cloud | 110



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



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COLOR CHIP BLENDS	Liquid Granite Suggested Base Colors	Liquid Terrazzo Suggested Base Colors
Sandstone 109	Travatan	Travatan or Deep Tan
Shadow 107	Cape Cod Gray or Pewter Gray	Pewter Gray, Cape Cod Gray, or Black
Atascadero 100	Travatan or Deep Tan	Travatan or Deep Tan
Dove Gray 102	Cape Cod Gray or Pewter Gray	Pewter Gray or Cape Cod Gray
Granite 104	Cape Cod Gray or Pewter Gray	Pewter Gray, Cape Cod Gray, or Black
Storm Cloud 110	Concrete Gray or Cape Cod Gray	Pewter Gray, Cape Cod Gray, or Black
Niagara 106	Cape Cod Gray	Pewter Gray or Cape Cod Gray
Mocha Tweed 105	Deep Tan or Travatan	Travatan, Deep Tan, or Tile Red
Desert Storm 112	Travatan	Travatan, Deep Tan, or Black

- Liquid Granite is a full broadcast of Color Chips and will resemble the front of this chart.

- Liquid Terrazzo is a light broadcast of Color Chips and is not shown.
- Base Colors are taken from the Top Coat Color Chart.
- Please contact your distributor or a Westcoat representative for detailed Liquid Granite and Liquid Terrazzo application instructions.
- Color will vary. This chart is for reference only. Please request an actual color sample or apply sample on site before beginning any project.

