



SPARTACOTE™ Chip and Quartz Wall Installation Guideline TDS 447

LATICRETE International, Inc. strongly recommends the use of licensed coating contractors who have demonstrated their commitment to their craft and taken the time to stay current with the latest materials and methods. Requiring references and a portfolio along with a bid or estimate is a good way to ensure the contractor has successfully completed work of similar size, scope, and complexity. Please read application instructions in their entirety prior to installation and contact LATICRETE with any question before you begin any coating project.

LATICRETE resinous floor and wall products are manufactured with the highest regard for quality, functionality and performance. The following provides a guideline to the proper installation of the SPARTACOTE™ Chip and Quartz wall systems. To install the SPARTACOTE Chip or Quartz Wall systems you should follow the installation guidelines below:

SUBSTRATE PREPARATION:

Always install coatings over a mechanically prepared (profiled) surface. An open, porous surface is necessary for proper bonding. The surface must be deemed structurally and mechanically sound, clean, and dry. For wall applications over cement board always follow cement board manufacturer installation guidelines. Prepare the substrate by sanding the cement board with a 60 grit or rougher sanding screen prior applying a SPARTACOTE™ wall system. For floors or concrete based wall structures proper surface preparation is required for decorative thin-film “Class-A-type” flooring and wall systems. This is best achieved with mechanical grinding machines using diamond heads achieving a final 30 to 100-grit profile. Recommended surface profile is a CSP-2, reference ICRI Technical Guideline No. 03732. Surfaces to be coated must be free of previous coatings, sealers, grease, and other contaminants that may impede adhesion. Always check the surface for any bond inhibitors prior to application. DO NOT USE Alcohol to clean or tack substrate or previous coat prior to application. Any repairs must be addressed prior to the application and should be repaired in accordance with ICRI standards. A moisture emission measurement system is necessary to assess the moisture drive of a concrete slab prior to installation of any toppings or coatings. The maximum amount of moisture in the concrete/mortar bed substrate should not exceed 3 lbs. /1,000 ft² (170 µg/s m²)/ 24 hrs. per ASTM F1869 or 75% relative humidity as measured by moisture probes. If there is a moisture emission situation in excess of the above rate, the use of SPARTACOTE™ Moisture Vapor Barrier will be necessary prior to the application of the floor coating. SPARTACOTE Moisture Vapor Barrier requires a concrete surface profile of 3-5.

If you need to install or create a cove based for the installation, please see SPARTACOTE Cove Base Installation Guide TDS448.

APPLICATION METHODS:

All methods require the use of 18” (45.7cm) 3/8” (9mm) nap soft woven roller covers, 6” (15.2cm) weenie rollers and/or 3” (7.6cm) chip brushes. Note: The type of applicator used will be based upon the height of the wall installation and the size of the project. All methods described below will incorporate a “cut-in” around the perimeter. The cut in should stay just ahead of the main wall application. Product should be dry to the touch in 1-2 hours following application. Material may be applied using one of the following techniques:

Perimeter Cut-In:

Some systems require the use of 6” (15.2cm) weenie rollers and/or 3” (7.6cm) chip brushes to effectively “cut-in” around the perimeter of the project. The cut in should stay just ahead of the main wall and floor application

Dip & Roll:

The dip and roll technique will incorporate the use of an 18” (45.7cm) roller and pan. After pouring your already mixed material into your roller pan, fully saturate the roller. Apply the material in one direction followed by a perpendicular back roll in the opposite direction.

MIXING MATERIAL

Pigmenting Coatings:

Disperse a 1-qt (0.9L) SPARTACOTE™ Polyaspartic Pigment pack into any 1 gallon (3.8L) SPARTACOTE™ FLEX product Part A pigment base (short-filled). Mix pigment into part A with a slow drill mixer for approximately 2 minutes until the pigment is properly dispersed. Failure to do so will result in a potentially uneven finish. Once pigment is fully dispersed, use a separate mixing vessel combine the newly pigmented part A with the part B in equal 1:1 amounts by volume for 2 minutes with a slow speed drill or paddle mixer making sure to scrape the sides and bottom of the bucket. Avoid creating a vortex, as it will induce air to the mix. NOTE: The part

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A and part B should match the material used (i.e. SPARTACOTE FLEX SB part A should be mixed with SPARTACOTE FLEX SB part B.)

Non-Pigmented Clear Coats:

Do not mix until ready for immediate use. Using a separate mixing vessel combine the chosen SPARTACOTE™ FLEX material parts A&B in equal 1:1 amounts by volume for 2 minutes with a slow speed drill or paddle mixer making sure to scrape the sides and bottom of the bucket. Avoid creating a vortex, as it will induce air to the mix.

APPLYING THE PRODUCT

Application of Primer Coat: Please install cove base material as per TDS448 and allow it to cure properly (if applicable) prior to full wall system application. Following surface preparation, be certain that the substrate is free of any concrete dust, moisture or other contaminants. An 8 mil (0.2 mm) thick coat of SPARTACOTE™ FLEX PURE™ Pigmented should be installed at a rate of 200 ft²/ gallon (18.6 m²/ 3.8L) using one of the suggested application methods above. If using SPARTACOTE FLEX SB Pigmented, a 4 mil (0.1mm) thick coat should be installed at a rate of 330 ft²/ gallon (30.6 m²/ 3.8L). It is recommended to install starting at the top of the wall and work your way down, moving efficiently around the room. Remember to always complete the application with a back-roll. Allow this primer coat to dry, typically 1-3 hours, prior to moving to the next step within this process. NOTE: temperature will affect the actual dry time.

Application of Primer Coat/ Broadcast Coat: An 8 mil (0.2 mm) thick coat of SPARTACOTE™ FLEX PURE™ clear should be installed at a rate of 200 ft²/ gallon (18.6 m²/ 3.8L) using one of the suggested application methods above. If using SPARTACOTE FLEX SB clear a 4 mil (0.1mm) thick coat should be installed at a rate of 330 ft²/ gallon (30.6 m²/ 3.8L). It is recommended to install starting at the top of the wall and work your way down, moving efficiently around the room. Remember to always complete the application with a back-roll. It will be necessary to work in sections as to not allow the coating to dry prior to the broadcast. Immediately following the back roll and while the material is still wet, broadcast the Blended Chip or Blended Quartz media into the wet resin to refusal or rejection. Depending on the size area to be covered the use of a hand held chip sprayer (i.e. Kraft Tools Broadcast Gun) is recommended to facilitate installation and achieve a uniform chip/ quartz application. Coverage rate for the chip media is approximately 400 ft² per 55 pound (37.2 m²/ 25kg) box and coverage for the quartz media is approximately 200 ft² per 50 lb. bag (18.8 m²) for a single broadcast. (It is recommended that extra media be on hand to avoid running short). Allow the material to dry before moving on to the next step, typically 1-3 hours.

Cleaning and Scraping of Excess Chip/ Quartz: Once broadcast coat has dried to the touch, begin removing excess quartz/media chip. (NOTE: The coating is dry but is not "cured" at this point. Proceed cautiously, do not rest anything or lean on the surface. With an electric leaf blower proceed to blow all the excess non adhered media that will be present on the floor into piles or towards a corner. Carefully clean up the excess quartz/chip and re-box it as it can be used again on future projects. Only with the chip media, use a 12-14" (30.5 -35.6 cm) metal floor scraper and proceed to scrape the surface in 3 opposing direction (north/south, east/west, diagonal) ensuring the entire wall receives a uniform scrape. This procedure is critical to a quality finished wall installation. A poor scrape will result in an uneven finished texture and excess material usage on the top coat. Clean all the chip debris by blowing it into piles with the leaf blower. At this point, it is recommended to also blow the walls as to remove any excess clip or quarts that may be clinging on to the surface. Clean up the debris and dispose of it in the trash (The scraped chip cannot be re-used on the next job as it is contaminated with the resins). Blow the wall/floor a second time to ensure all remaining chip debris is off the floor and surface is clean and ready for the top coat.

Application of Grout/ Top Coat: The Grout/ Top coat will consist of a single or double coat of SPARTACOTE FLEX PURE CLEAR at 8 mils (0.2mm) or SPARTACOTE FLEX SB at 4 mils (0.1mm) thickness. The number of coats will be dependent of the surface texture you wish to achieve.

CURE/ POST COMPLETION:

The wall/floor should be monitored for two hours to prevent traffic and should remain out of service for 24 hours before returning the normal use. LATICRETE polyaspartic coating systems are nonporous, causing dirt and contaminants to remain on the surface. However, these contaminants can act as abrasives and if not removed regularly can mar the finish over time. Refer to TDS420 for information regarding recommended maintenance of your wall and flooring system.

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TDS447 R 11 July 2018



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