SPARTACOTE™ Metallic SB Flooring Installation Guideline

TDS 437

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 flooring products are manufactured with the highest regard for quality, functionality and performance. The following provides a guideline to the proper installation of the SPARTACOTE™ Metallic Flooring system. To install the SPARTACOTE Metallic Flooring system you should follow the installation guidelines below:

SUBSTRATE PREPARATION:
Always mechanically prepare (profile) the surface. An open, porous surface is necessary for proper bonding. The surface must be deemed structurally and mechanically sound, clean, and dry. Proper surface preparation is required for decorative concrete, thin-film "Class-A-type" flooring 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 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 ft^2 (170 μg/s•m^2)/24 hrs. per ASTM F1869 or 75% relative humidity as measured. 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.

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" (76mm) chip brushes. All methods described below will incorporate a "cut-in" around the perimeter. The cut in should stay just ahead of the main floor 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" (76mm) chip brushes to effectively "cut-in" around the perimeter of the project. The cut in should stay just ahead of the main 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. This method works well if you're working in sections that stop at a control joint.

Ribbon & Roll:
The ribbon and roll technique will consist of pouring the mixed material out in a "ribbon" approximately 8 -12" (22.3 - 30.5cm) wide by the length of the area to be coated. While standing over the ribbon spread the material using an 18" (45.7cm) roller. This should be done working in an area approximately 8 ft. (2.4 m) wide (ribbon should be placed in the center of the area in which you are working) moving your way down the length of the ribbon while ensuring an even, uniform application of the material. The next ribbon should be placed in the center of the next 8 ft. (2.4 m) section and 4 ft. (1.2 m) from the "wet edge" of your previous application.

<u>Top/ Seal Coat Broom & Roll</u>:
For larger square footage installation, applicators may find it advantageous to incorporate an asphalt seal-coat broom. Pour a ribbon of material at the back wall or starting point, spread the material using the broom (exactly as you would with a notched squeegee).

MIXING MATERIAL
<u>Pigmenting Coatings</u>**:**
Disperse a 1 quart (0.9 L) SPARTACOTE™ Polyaspartic Pigment pack (Black) into SPARTACOTE FLEX SB 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 at a 1:1 ratio (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.

<u>Metallic Coat</u>:
Disperse SPARTACOTE Metallic Pigment into SPARTACOTE FLEX SB Part A Clear, do not disperse into Part B. Mix in metallic pigment at a ratio of 1 - 8oz. (237 mL) bottle of SPARTACOTE Metallic Pigment to 1 gallon (3.8 L) of SPARTACOTE FLEX SB. **Note: a 2 gallon (7.6 L) kit will require 2 - 8oz. (237 mL) bottles. It is a good idea to allow for a minimum 1 hour set in time for the metallic pigments to fully disperse. Do not mix until ready for immediate use. In a separate mixing vessel combine newly pigmented Part A with Part B at a 1:1 ratio (by volume) for about 1 minute with a wooden stir stick making sure to scrape the sides and the bottom of the bucket with the stir stick. Be careful not to create a vortex and induce air.

<u>Non-Pigmented Clear Coats</u>:
Do not mix until ready for immediate use. Using a separate mixing vessel combine the SPARTACOTE FLEX SB parts A and B at a 1:1 ratio (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
<u>Application of Primer Coat</u>:
Following surface preparation, be certain that the substrate is free of any excessive concrete dust, moisture or other contaminants. A coat of SPARTACOTE FLEX SB pigmented black should be installed at a rate of 330 ft^2 /gallon (30.7 m^2/ 3.8 L) using one of the application methods mentioned above. Allow coat to dry prior to the application of the second coat, typically 1-2 hours.

<u>Application of Metallic Coat</u>:
With the newly mixed SPARTACOTE Metallic material, generously apply to floor at a rate of 100 ft^2/gallon (9.3 m^2/ 3.8 L). Material should be spread around the floor with a tool such as a magic trowel, concrete broom, Spartacote broom, roller or other tool in a manner that achieves the desired effect. While coating is still wet it may be spritzed with denatured alcohol, isopropyl alcohol or solvent to create additional effects. Product should be dry to the touch within 1-2 hours following application. Repeat second coat if desired. Allow coat to fully dry prior to the application of the final or top coat.

<u>Application of Top Coat</u>:
Top coat will consist of a single coat of SPARTACOTE FLEX SB clear applied at a rate of 330 ft^2/gallon (30.7 m^2/3.8 L). Optional: SPARTACOTE Grip Traction Additive may be used in the top coat to provide for increased texture and traction.

CURE/ POST COMPLETION:

The floor should be monitored for two hours to prevented foot traffic and should remain out of service for 24 hours before returning the normal use. LATICRETE polyaspartic floor 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 on the floor over time. Refer to TDS 420 for information regarding Recommended Maintenance of your flooring system.