



# SPARTACOTE™ SL Epoxy System Installation Guideline TDS 446

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™ SL Epoxies flooring systems. To install the SPARTACOTE SL Epoxy 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 or PCD’s achieving a final 30 grit profile. Recommended surface profile is a CSP-3, 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<sup>2</sup> (170 µg/s m<sup>2</sup>)/ 24 hrs per ASTM F-1869 or 75% relative humidity as measured by a moisture probe. 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:**

### SPARTACOTE RESINS:

All methods require the use of 18” (45.7cm) 3/8” (9mm) nap soft woven roller covers for the final back roll. 6” (15.2cm) weenie rollers and/or 3” (7.6cm) chip brush will be necessary to cut-in around the perimeter and to reach areas in which the notched squeegee or Seal Coat Broom may not be able to. The cut in should stay just ahead of the main floor application. SPARTACOTE® SURFACE BUILD 110™ should be dry to the touch approximately 6 hours following the application. SPARTACOTE® SURFACE BUILD 150 should be dry to the touch in approximately 12 hours, while the SPARTACOTE polyaspartic resins should be dry to the touch in 2-3 hours following the application. Temperature and site conditions will effect actual dry times. 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 floor application

### Top/ Seal Coat Broom & Roll:

For larger square footage installation, applicators may find it advantageous to incorporate an asphalt seal-coat broom or notched squeegee. Pour a ribbon of material at the back wall or starting point, spread the material using the broom or squeegee.

## **MIXING MATERIAL**

### SURFACE BUILD 110™:

Combine Part A with Part B as packaged or at a 1:1 (A:B) mixing ratio. Mechanically mix with a power drill at low speed for approximately 2 minutes. No induction time is required prior to use. Material may be thinned with up to 10% xylene. Material should be poured out of the mixing container immediately after it is well mixed. Leaving mixed material in the bucket will generate excessive heat and cause the material to be unusable.

### SURFACE BUILD 150™:

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Stir contents of Part A prior to mixing in part B. Combine stirred Part A with Part B as packaged or at a 2:1 (A:B) mixing ratio. Mechanically mix with a power drill at low speed for approximately 2 minutes. No induction time is required prior to use. Material may be thinned with up to 10% xylene for better workability. Material should be poured out of the mixing container immediately after it is well mixed. Leaving mixed material in the bucket will generate excessive heat and cause the material to be unusable.

#### Polyaspartic Clear Coats:

Do not mix until ready for immediate use. Using a separate mixing vessel combine the SPARTACOTE™ FLEX PURE™ parts A&B in equal 1:1 amounts by volume and mix 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/ Seal Coat:

After properly profiling the surface to an ICRI CSP of 3 be certain that the substrate is free of any moisture or other contaminants. Install following the installation method above. Small chip brushes may be used along the perimeter and in more difficult to reach areas. SPARTACOTE™ SURFACE BUILD 110 should be installed at a wet film thickness of 6 - 20 mil (0.15 - 0.5mm). This will typically be yield approximately 80 to 266 ft<sup>2</sup>/ gallon (2.0 - 6.5 m<sup>2</sup>/L). After the initial spreading of material using the seal coat broom or squeegee, a back roll in the opposite direction should immediately follow. It will typically be dry to the touch 6 hours after application, depending on ambient and slab temperature. The material should be recoating with a subsequent coating within 72 hours of this application.

#### Application of Mid Coat (Broadcast Optional):

After the primer coat of SPARTACOTE SURFACE BUILD 110 is dry the mid/ broadcast coat can be applied. The materials used for this coat is the SURFACE BUILD 150. Install following the installation method above using small chip brushes or weenie rollers along the perimeter and in more difficult to reach areas. SPARTACOTE™ SURFACE BUILD 150 should be installed at a wet film thickness of 10 - 20 mil (0.25 - 0.5mm). This will typically be yield approximately 80 - 160 ft<sup>2</sup>/gallon (2.0 – 3.9 m<sup>2</sup>/L), respectively. After the initial spreading of material using the seal coat broom or squeegee, a back roll in the opposite direction should immediately follow. If going with a clear system allow the coating to dry prior to the top coat application. If a decorative system is to be installed, immediately after the back roll a third person on spikes should broadcast the decorative media into the wet resin to refusal. The resin will typically be dry to the touch 12 hours after application, depending on ambient and slab temperature.

#### Cleaning and Scraping of Excess Chip (If Applicable):

Once broadcast coat has dried to the touch, begin removing excess media chip. (NOTE: The floor is dry and can be walked on but is not “cured” at this point. Walk cautiously, do not run or twist feet on the surface). With an electric leaf blower proceed to blow all the excess/ non adhered chip into piles or towards a corner. Carefully clean up the excess chip and re-box it as it can be used again on future projects. Using a 12-14” (30.5 – 35.6 cm) metal floor scraper proceed to scrape the surface in 3 opposing direction (north/south, east/west, diagonal) ensuring the entire floor receives a uniform scrape. This procedure is critical to a quality finished floor. 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. Clean up the debris and dispose of it in the trash (The scraped chip cannot be re-used on the next job). Blow the floor a second time to ensure all remaining chip debris is off the floor and surface is clean and ready for the top coat.

#### Cleaning and Removing Excess Quartz (If Applicable):

Once broadcast coat has dried to the touch, begin removing excess quartz. (NOTE: The floor is dry and can be walked on but is not “cured” at this point. Walk cautiously, do not run or twist feet on the surface.) With an electric leaf blower proceed to blow all the excess/ non adhered quartz into piles or towards a corner. A stiff bristled broom can also be used to ensure excess quartz is removed. Carefully clean up the excess quartz and re-box it as it can be used again on future projects.

#### Application of Top Coat (Optional for Clear System):

If a highly abrasion resistant and/or chemical resistant floor coating is sought, the use of a polyaspartic top coat can be used. If the mid coat was finished with a broadcast of decorative media this coating will be necessary. After the 12 hour dry time and the decorative media (if applicable) is cleaned, a top coat of SPARTACOTE FLEX PURE can be used. Apply an 8 mil (0.2mm) thick coat of SPARTACOTE™ FLEX PURE™ Clear using an application method mentioned above, at a rate of 200 ft<sup>2</sup>/ gallon (4.9 m<sup>2</sup>/L). Optional SPARTACOTE GRIP™ traction additive may be used in the top coat to provide for increased texture and traction. SPARTACOTE GRIP traction additive is a polymer sand that can be suspended into the material during the mixing process. Amount added can range from 1-3 oz./gallon (7.5 – 23.3 mL/L) depending on the desired level of traction. Always do a mock-up to establish desired level of traction. If a smoother finish is sought. Allow the Top coat to dry to the touch, typically 2-3 hours, prior to another application of SPARTACOTE FLEX PURE.

**CURE/ POST COMPLETION:**

The floor should be monitored for four 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 TDS420 for information regarding Recommended Maintenance of your flooring system.

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