



SPARTACOTE™ Stain Flooring Installation Guideline TDS 445

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™ Stain flooring system. To install the SPARTACOTE Stain 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 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.

APPLICATION METHODS:

SPARTACOTE RESINS:

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. 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 or more 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

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.

Top/ Seal Coat Broom & Roll:

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).

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SPARTACOTE™ VIVID DYE™

SPARTACOTE VIVID DYE is best applied with an airless backpack pump-up sprayer or good quality solvent-resistant sprayer.

MIXING MATERIAL

Non-Pigmented Clear Coats:

Do not mix until ready for immediate use. Using a separate mixing vessel combine the SPARTACOTE™ FLEX SB™ 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.

SPARTACOTE™ VIVID DYE™:

VIVID DYE can be mixed with either acetone or water. Mixing with acetone will yield a short dwell time, with consistent color. This mixture will penetrate fairly dense concrete surfaces. Mixing with water will yield a long dwell time, with increased marbling. Surface needs to be porous. NOTE: If mixing with water a longer cure time will be needed to assure that the water is completely evaporated prior to the application of the SPARTACOTE resin.

Mix the entire contents of the 5 oz (148 mL) dye concentrate with 1 gal (3.8 L) of the desired liquid diluent. Mix the entire contents of the 25 oz (740 mL) dye concentrate with 5 gal (19 L) of the desired liquid. Drying times can be dramatically affected by temperature and humidity if diluted with water rather than acetone. Application must be made to concrete with a temperature higher than 50°F (10°C) and maintained at this temperature or above for a minimum of 4 hours after application. Typical dry time is 30 seconds to 30 minutes at 70°F (21°C) and 50% relative humidity. Dry times are also dependent upon the water or solvent carrier ratios and will change pending the surface temperature of the slab, ambient temperature, and other site conditions.

APPLYING THE PRODUCT

Application of the VIVID DYE™ Concrete Stain:

Always complete a job site sample prior to the application over the entire floor to confirm results. Using an airless backpack pump sprayer apply SPARTACOTE VIVID DYE in light spray applications (See SDS for proper protective equipment and safe handling prior to spraying). Once the subsequent dye application has dried, additional light applications of the same color or other colors can put down to build color depth or create marbling effects. If using recommended SPARTACOTE FLEX SB™ coatings maintain a maximum 100-grit level profile to allow for optimal sealer adhesion and durability.

Application of Primer Coat: Following the application of the SPARTACOTE VIVID DYE™, be certain that the substrate is free of any excessive concrete dust, moisture or other contaminants. A 4 mil (0.1mm) thick coat of SPARTACOTE™ FLEX SB™ Clear should be installed at a rate of 330 ft²/gallon (8 m²/L) using one of the suggested application methods above. Remember to always complete the application with a back-roll. Allow Coat to dry before the top coat is to be applied, typically 1-2 hours. Please note some of the concrete dye will bleed into this coating, this is normal and should be expected.

Application of Top Coat: Apply a second 4 mil (0.1mm) thick coat of SPARTACOTE™ FLEX SB™ Clear using an application method mentioned above, at a rate of 330 ft²/gallon (8 m²/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 (30-89 mL/ 3.8L) depending on the desired level of traction. Always do a mock-up to establish desired level of traction. SPARTACOTE FLEX SB Clear may be substituted with SPARTACOTE™ FLEX XT™ high performance top-coat at a coverage rate of 200 ft.²/gallon (4.9 m²/L) for added thickness and reduced solvent odor.

CURE/ POST COMPLETION:

The floor should be monitored for 2 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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