



LATICRETE® FLAKE PA Flooring

Installation Guideline

TDS 432

LATICRETE Europe 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 LATICRETE® FLAKE PA flooring system. To install the FLAKE PA 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% (by weight) when measured using the carbide method with a carbide hygrometer (CM device). If there is a moisture emission situation in excess of the above rate, the use of LATICRETE MOISTURE VAPOR BARRIER will be necessary prior to the application of the floor coating.

APPLICATION METHODS:

All methods require the use of 45.7cm and 9mm nap soft woven roller covers, 15.2cm weenie rollers and/or 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 15.2cm weenie rollers and/or 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 a 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 backroll 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 22.3 - 30.5cm wide by the length of the area to be coated. While standing over the ribbon spread the material using a 45.7cm roller. This should be done working in an area approximately 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 2.4 m section and 1.2 m from the “wet edge” of your previous application.

Top/ Seal Coat Broom & Roll:

For larger areas of 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

Pigmenting Coatings:

Disperse 1.25 lt LATICRETE POLYASPARTIC PIGMENTS into 3.75 lt LATICRETE GUARD PA Part A pigment base (short-filled). *NOTE: for larger packaging: disperse 4.7 lt POLYASPARTIC PIGMENTS into 15.3 lt GUARD PA 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.

Non-Pigmented Clear Coats:

Do not mix until ready for immediate use. Using a separate mixing vessel combine the LATICRETE CLEAR PA parts A&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

Application of Primer Coat:

While the use of a primer product is typically optional depending on substrate conditions, a primer coat is highly recommended for the FLAKE system, in order to improve the bond between the substrate and the resinous coating and chip media. Following surface preparation, be certain that the substrate is free of any excessive concrete dust, moisture or other contaminants. PRIMR EP, PRIMER EP WB or PRIMER OT should be used to prime the substrate. Allow primer to dry before the subsequent broadcast coat is to be applied. Dry time depends on primer product used.

Application of Pigmented Broadcast Coat:

Apply a 4 mil (0.1mm) thick coat of GUARD PA using an application method above, at a rate of 125 g per m². Immediately following the back roll and while the material is still wet a third person on spikes should broadcast the chip media into the wet resin to refusal or rejection.

Coverage rate for the chip media (FLAKE) is approximately 29 m²/ 20kg box. (*NOTE: it is recommended that extra chip media be on hand to avoid running short*). Allow the material to dry before moving on to the next step, typically 1-2 hours.

Cleaning and Scraping of Excess FLAKE:

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 30 – 35 cm metal floor scraper proceed to scrape the surface in 3 opposing directions (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 (*NOTE: 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.

Application of Top Coat/Grout Coat:

Top coat will consist of a one to two coats of CLEAR PA applied at a rate 250 g per m². CLEAR PA top coat material can be applied using any of the methods described above, dip and roll, ribbon and roll, broom and roll, or squeegee and roll. ****NOTE: if a very smooth finish is desired a second top coat can be applied at 125 g per m².** Finally, CLEAR PA may be substituted with CLEAR PA PURE at a coverage rate of about 400 g per m² for added thickness and reduced solvent odor.

CURE/ POST COMPLETION:

The floor should be monitored for two hours to prevent 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.

Technical Data Sheets are subject to change without notice. For latest revision, check our website at laticrete.eu.

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