

Updated September 2015

Text applicable to Parterre luxury vinyl tile, plank and resilient sheet flooring unless otherwise evident.

PLEASE OBSERVE THE FOLLOWING ADVISORIES

Specifier and Installer Advisory - Hospital Beds

Do not specify or install #449P or #539 for use under hospital beds because the soft adhesive will displace under wheels and result in an indentation that will be visible on surface of the flooring. Specify and install #339P epoxy adhesive in an 18" x 18" square centered at planned position of each wheel, or full spread over entire area of planned bed placement to extend out 24"-36" in all directions.

TROWEL SPECIFICATIONS AND COVERAGE - All Adhesive Types

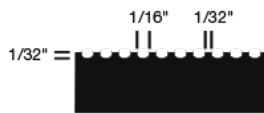
Recommended versus Actual

Spread all Parterre adhesives with a clean, professional quality, replaceable blade, steel flooring trowel. A replaceable blade trowel is highly recommended because it easily, quickly, economically and efficiently overcomes distorting of specified notch shape and size due to wear.

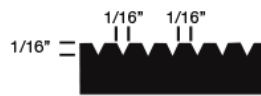
Troweling Technique

Spread adhesive with trowel held as close as possible to a 60° angle to the subfloor to ensure surface receives proper quantity of adhesive. Use a firm grip and exert pressure to produce a well-defined pattern.

TROWEL RECOMMENDATIONS



2 mm Products



3 mm Products



For vinyl tile and plank wall application.

#449P ADHESIVE

Solvent-Free, Pressure Sensitive

DESCRIPTION

Parterre #449P is a solvent-free, pressure sensitive adhesive for installing Parterre vinyl tile, plank and sheet flooring over porous and non-porous substrates. Porous substrates include most concrete and plywood substrates and those that have been coated with premium quality patching or leveling compound. Non-porous substrates include, but are not limited to, existing resilient flooring, sealed concrete, terrazzo, and possibly other materials. Many concrete slabs and all patching compounds mixed with liquid additive are non-porous.

This adhesive is non-flammable, water and alkali resistant and freeze-thaw stable 5 cycles to 0°F as tested in accordance with ASTM D7149. Parterre #449P has excellent moisture resistance and resists the effects of plasticizer migration, allows for easy clean up, is hard setting, sets to a tough permanent bond, emits <0.1 grams per liter VOCs, meets and exceeds the requirements of SCAQMD 1168.

SPREAD RATE

Please note the spread rate or coverage area listed is for estimation purposes only, and is dependent on the variables and conditions of the installment area.

| #449P | PER 1 GALLON |
|-------------|------------------------|
| Porous: | APPROX 150-175 sq. ft. |
| Non-Porous: | APPROX 175-225 sq. ft. |

| #449P | PER 4 GALLONS |
|-------------|------------------------|
| Porous: | APPROX 600-700 sq. ft. |
| Non-Porous: | APPROX 700-900 sq. ft. |

INSTALLATION INSTRUCTIONS

Reference shall be to the Parterre Installation Manual for detailed instructions on testing and preparing substrates to receive Parterre flooring and using Parterre #449P adhesive. The following paragraphs represent a brief and select summary and are not a substitute for full reference and attention to the Parterre Technical Manual. Additional information may be obtained from ASTM Standard Guide F710. The most current issue of both documents should be used during installation.

ACCEPTABLE SUBSTRATES

Per ASTM F710, substrates shall be permanently dry, clean, smooth, and structurally sound; free of old adhesive residue, curing compounds, solvent, paint, wax, oil, grease, adhesive removers, sealers, alkaline salts, mold, mildew, and other foreign materials that might limit adhesive bond. Surface cracks, grooves, depressions, control joints, other non-moving joints and other irregularities shall be filled or smoothed with a premium quality latex patching or

underlayment compound. Patching and/or installing shall not be performed over expansion joints or other moving joints. All wood substrates shall be double sheeted, smooth and properly prepared.

Do not install over Luan, CCA (pressure treated) plywood, CDX or other plywood with knots, OSB (oriented strand board), particle board, Masonite™ or other hardboard underlayment, hardwood floors, cushioned or textured resilient flooring, oil treated or otherwise coated wood or other uneven or unstable substrates. Unacceptable substrates shall be covered with a 1/4" or thicker approved underlayment such as Arctic Birch Plywood underlayment or A/C plywood.

CONCRETE TESTING

It is essential that moisture tests be performed on all concrete subfloors regardless of grade level or whether or not the concrete is freshly poured or is classified as an older slab. Moisture testing must be performed utilizing both ASTM F1869 Calcium Chloride Test with moisture levels not to exceed 5 lb. per 24 hours per 1,000 sq. ft. and ASTM F2170 in situ Relative Humidity (RH) Tests with RH not to exceed 75%. A pH test of concrete slab alkalinity content must be tested in accordance with ASTM F710, and results must be within test parameters. If the test results exceed the limitations, **INSTALLING SHALL STOP** until relative matters have been corrected and test results are within limits.

TEMPERATURE

Areas to receive flooring shall be clean, fully enclosed and weather-tight, with the permanent HVAC set at a uniform temperature of 65°-80°F for 48 hours prior to installing, during the installing, and for 48 hours after installing. Thereafter, temperature shall never be below 55°F or above 90°F.

TESTING FOR POROSITY

Parterre #449P can be used over porous and non-porous substrates. Please be aware that machine troweled, highly burnished concrete slabs as well as the majority of underlayment / patching compounds are essentially considered non-porous. Testing shall always be performed by placing several droplets of water on the substrate. If the water is absorbed within a minute or so, the substrate can be considered to be porous. If the water beads on the surface, the substrate is non-porous.

TROWEL SELECTION

For porous substrates use a 1/16" x 1/16" x 1/16" square notch trowel for materials with a gauge (thickness) of 0.080" or greater. Use a 1/16" V-notch trowel for materials with a gauge (thickness) of 0.080" or less. For a non-porous substrate, use a 1/16" V-notch trowel for materials with a gauge (thickness) of 0.080" or greater. Use 1/16" x 1/32" x 1/32" for materials with a gauge (thickness) of 0.080" or less. Replace trowels with worn notches. Do not re-notch worn notches. Hold trowel at a 60° angle. Do not leave puddles of adhesive.



Porous Substrates

- For porous substrates, use a 1/16" x 1/16" x 1/16" square notch trowel or a 1/16" V-notch trowel based on the gauge (thickness) of flooring material and porosity of the subfloor.
- When the adhesive no longer has a milky appearance, immediately begin placing flooring. Do not place flooring into wet adhesive.
- Upon completion of installation, immediately roll with a three-section 100 lb. roller.
- Remove wet adhesive with water. Dry adhesive may be removed with mineral spirits.
- If the adhesive is allowed to remain uncovered, after initially drying for periods longer than the 1–3 hours recommended time, a loss in adhesion strength and even complete adhesion failure will result.

Note: The time from when the adhesive no longer has a milky appearance to the time when the flooring should be laid into the adhesive should NEVER exceed 4 hours and should typically be between 1–3 hours, depending on subfloor condition, porosity, patching compound type, direct sunlight conditions, troweling style, atmospheric temperature, slab humidity, slab temperature and other job site conditions.

Care must be taken by the installer not to spread more adhesive than can be worked appropriately within the recommended time frame.

Non Porous Substrates

- For non-porous substrates, use a 1/16" V notch trowel or fine notch trowel, notched 1/16" x 1/32" x 1/32", based on the gauge (thickness) of flooring material and porosity of the subfloor.
- When the adhesive no longer has a milky appearance, immediately begin placing the flooring. Do not place flooring into wet adhesive.
- Upon installation, immediately roll with a three-section 100 lb. roller.

- Remove wet adhesive with water. Dry adhesive may be removed with mineral spirits.
- If the adhesive is allowed to remain uncovered, after initially drying for periods longer than the 1–3 hours recommended time, a loss in adhesion strength and even complete adhesion failure will result.

Note: The time from when the adhesive no longer has a milky appearance to the time when the last tile should be laid into the adhesive should NEVER exceed 4 hours and typically be between 1–3 hours, depending on subfloor condition, porosity, patching compound type, direct sunlight conditions, troweling style, atmospheric temperature, slab humidity, slab temperature and other job site conditions.

Care must be taken by the installer not to spread more adhesive than can be worked appropriately within the recommended time frame.

#539 HARD SETTING ACRYLIC ADHESIVE

DESCRIPTION

Parterre #539 is a premium, non-staining, acrylic adhesive used to permanently install resilient flooring on porous and non-porous subfloors. Parterre #539 is for all grade levels of concrete, on-, above-, and below-grade, in the absence of moisture, and for suspended double sheeted, structurally sound wood floors (APA). This adhesive is non-flammable, water and alkali resistant and freeze-thaw stable as determined by ASTM Test Method D7149. Parterre #539 has excellent resistance to plasticizer migration and sets to a tough, hard, permanent bond.

SPREAD RATE

Please note the spread rate or coverage area listed is for estimation purposes only, and is dependent on the variables and conditions of the installment area.

| #539 | PER 1 GALLON |
|-------------|------------------------|
| Porous: | APPROX 125-150 sq. ft. |
| Non-Porous: | APPROX 200-225 sq. ft. |

| #539 | PER 4 GALLONS |
|-------------|------------------------|
| Porous: | APPROX 500-600 sq. ft. |
| Non-Porous: | APPROX 800-900 sq. ft. |

INSTALLATION INSTRUCTIONS

SUBFLOOR PREPARATION

All subfloors shall be clean, dry, and free of dust, dirt, wax, paint, grease, and all other extraneous materials that might interfere with the adhesive bond. Cracks and uneven surfaces must be filled with an approved cement based patching compound. It is essential that moisture testing shall be performed on all concrete subfloors regardless of grade level or whether the concrete is freshly poured or is classified as an older slab. Moisture testing shall be performed

as per ASTM F1869 Calcium Chloride Test, with moisture levels not to exceed 6 lb. per 24 hours per 1,000 sq. ft., or as per ASTM F2170 In Situ Relative Humidity (RH) Test, with a RH moisture content not to exceed 75%. If the test results exceed the limitations, installation shall not proceed until the moisture level lowers to an acceptable level, or the moisture is properly mitigated. Additional information with regards to subfloor installation and requirements can be found in ASTM F710.

TEMPERATURE

- Flooring materials and adhesive shall be acclimated to the installation area for a minimum of 24-48 hours prior to commencing installation.
- The area to receive flooring shall be fully enclosed, weather tight, with the permanent HVAC system set and maintained at a minimum temperature of 65°F for a minimum of 48 hours prior to, during and after installation.

SUBSTRATES

- Parterre #539 is recommended for porous and non-porous applications.
- Note: It is the responsibility of the installing party to determine the porosity of the subfloor being covered. To determine if a subfloor is porous, place two droplets of water in various areas. If the subfloor is porous, the water will be absorbed within 45-60 seconds.
- For porous applications, once troweled, the adhesive shall remain open (flash-off) for approximately 5-10 minutes before placement of flooring. After placing the flooring into the adhesive, it shall be rolled immediately utilizing a three-section 100 lb. roller.
- For non-porous applications, the adhesive shall be allowed to dry to the touch with little or no transfer of adhesive to the finger. When the adhesive is dry to the touch, it is ready to accept the flooring material. Roll immediately after the flooring has been placed into the adhesive with a 100 lb. roller.

TROWEL SELECTION

- Use a 1/32" x 1/16" x 1/32" U-notch trowel for material equal to or less than 0.080" or 2 mm.
- Use a 1/16" x 1/16" x 1/16" square notch trowel for materials thicker than 0.080" or 2 mm.
- Replace worn trowels to ensure proper spread rate. **(Do not re-notch.)**



RESTRICTIONS

- From the time the adhesive is allowed to dry to the touch, to the time it must be covered, there are 45-60 minutes of working time, depending on temperature and humidity. The adhesive must be pliable in order for the installation to proceed.
- If the adhesive remains uncovered after it initially dries to the touch, for periods longer than the recommended time, a loss in adhesion strength will result. Care shall be taken by the installer not to spread more adhesive than can be worked within the recommended time frame. Chatter will be heard if fingernail is run across the beads of adhesive. NOTE: If any questions exist by the installer or floorcovering dealer as to whether or not this product is appropriate, contact Parterre's Technical Support.
- Follow all installation instructions as directed in Parterre's Tile, Plank and Sheet Installation Guidelines.
- Prevent all traffic for a minimum of 24 hours and heavy traffic and rolling loads for a minimum of 72 hours.
- Do not wash or clean the floor for a minimum of 3-5 days after installation is complete to allow adhesive to achieve proper adhesion.

#339P EPOXY ADHESIVE (PART A AND B)

DESCRIPTION

Parterre #339P Part A and Part B is a premium quality, solvent free, non-flammable, non-combustible, two-component epoxy adhesive. It is highly resistant to moisture, alkali and plasticizer migration; it cures slowly and sets to a very tough, firm and unbreakable bond.

SPREAD RATE

Please note the spread rate or coverage area listed is for estimation purposes only, and is dependent on the variables and conditions of the installment area.

| #339 EPOXY | |
|--------------|------------------------|
| PER 1 GALLON | |
| Porous: | APPROX 150-180 sq. ft. |
| Non-Porous: | APPROX 150-180 sq. ft. |

INSTALLATION INSTRUCTIONS

SUBFLOORS SUITED FOR APPLICATION

Parterre #339P Part A and Part B can be spread over:

1. Smooth and completely cured, porous and non-porous concrete – above-, on- and below-grade in the absence of moisture, alkali and hydrostatic pressure
2. Underlayment grade plywood
3. Steel decking
4. Terrazzo
5. Any other surfaces, after testing by and at the sole discretion of the flooring contractor

SURFACE PREPARATION

Reference shall be to the most current Parterre Installation Manual - Tile, Plank and Sheet for the specific type of subfloor concerned. Additionally, all subfloors shall be structurally sound, dry and free from dust, dirt, floor finishes, paint, grease, sealers, curing compounds and all other extraneous materials. If adhesive is present, it shall be completely scraped and removed to the bare subfloor. No trowel marks or ridges shall be felt by the hand. All concrete subfloors, regardless of age or grade level, shall be tested for moisture in accordance with ASTM F1869 Calcium Chloride Method or ASTM F2170 In Situ Relative Humidity Probe. Do not install if the moisture level exceeds 5 lb. per 24 hours per 1,000 sq. ft. for ASTM F1869, or 75% relative humidity (RH) for ASTM F2170. Refer to ASTM F710 for additional information. Electronic meters shall not be used for moisture testing. Gypsum based patching compounds and/or underlayment compounds shall be thoroughly dry prior to application of adhesive.

PRIMING

Although NOT required, in some cases, priming may enhance adhesive qualities and provide a more uniform substrate. Use of primer will maintain relatively even open time of spread adhesive, help equalize adhesive absorption over entire surface and maximize adhesive yield. Primers may render the floor non-porous. Determine spread rate of primer in accordance with manufacturer's guidelines and apply as directed.

JOBSITE CONDITIONS

Parterre adhesive and vinyl flooring shall be conditioned at the jobsite at temperatures between 65°F and 75°F for a minimum of 48 hours before installing. When delivered from a colder outdoor temperature (less than 50°F) to a warmer indoor jobsite temperature (minimum 65°F), boxes of Parterre vinyl flooring shall be spread over jobsite area and stacked no more than two boxes high to ensure proper conditioning before installing.

MIXING DIRECTIONS

- The packaged epoxy units are marked Part A and Part B. Mix the entire contents of the Part B container into the Part A container in a rotary motion, while at the same time lifting from the bottom. Mix until smooth and uniform in color, with no visible streaking; the adhesive will not cure if not thoroughly mixed.
- Mixed adhesive has a pot life of 30-45 minutes. Higher temperatures will shorten pot life; lower temperatures will lengthen pot life.
- Immediately after mixing, pour the entire container onto substrate. No mixed adhesive shall remain in the container.

TROWEL SELECTION

- Spread adhesive with a 1/16" x 1/16" x 1/16" V-notch trowel over porous underlayment, and with a 1/32" x 1/16" x 1/32" U-notch trowel over non-porous and/or very smooth underlayment.
- Hold trowel at a 60° angle to the subfloor to ensure proper quantity of adhesive is spread. It is the responsibility of the installer to ensure all trowels are maintained at recommended notch size. Do not re-notch trowels by hand. Trowel edges can wear rapidly, particularly on concrete. A decrease in the amount of adhesive spread can endanger successful installing.
- Coverage should be approximately 125-150 sq. ft. per gallon unit with a 1/16" x 1/16" x 1/16" V-notch trowel and approximately 150-175 sq. ft. per gallon unit with a 1/32" x 1/16" x 1/32" U-notch trowel.
-

APPLICATION

- Adhesive shall remain open 15 minutes after spreading. Flooring shall then be placed. Place flooring within 30-35 minutes after adhesive has been mixed. Periodically lift flooring to check for full adhesive transfer onto the back of the flooring. If adhesive is dry to the touch and does not transfer, do not install flooring.
- Note: Because epoxy is relatively slow setting and provides no initial tack, placed flooring can easily be dislodged during installation activity. Work off the material being installed whenever possible or use a kneeling board. Cutting material to butt tightly at all wall junctions will help to avoid shifting of material.

ADHESIVE CLEANUP/REMOVAL

After completion of installation, remove all excessive adhesive before it cures. Use a clean cloth dampened with denatured alcohol. (Caution: If a flammable solvent is used, avoid sources of heat, sparks and open flame. Use with adequate ventilation.) Do not allow solvent to penetrate seams because it can destroy the adhesive bond. When adhesive has cured, it cannot be easily removed. Dried adhesive generally will require abrasion or scraping with probable damage to the flooring surface.

ROLLING SHEET FLOORING

First remove all debris with a broom and/or with dust mopping. Flooring shall be rolled with a clean three-section 100 lb. roller. Begin rolling 30 minutes after placing flooring. Repeat rolling every 15 minutes until epoxy has set. Lower temperatures may require more rolling than higher temperatures for the epoxy to set. Ensure absence of bubbles. Roll diagonally in both directions. Direct sunlight or heat from an external source will shorten setting time of adhesive.

ROLLING PLANK OR TILE FLOORING

After installation do not walk on or roll. Ensure flooring is completely flat and well set into adhesive. Light weights shall be applied to curled edges and bubbles, if present after installation. Traffic on flooring over wet adhesive can force adhesive through joints with resulting unsatisfactory consequences.

EXPOSURE TO TRAFFIC

After installation completion, all foot traffic shall be prohibited for 24 hours and all rolling traffic, movement of heavy furniture and heavy equipment for 48 hours. Please note that lower temperatures will result in longer cure times.

#249P SENSITIVE ADHESIVE

DESCRIPTION

Parterre #249P is a premium acrylic adhesive that combines the excellent performance of a pressure sensitive adhesive with environmental safety characteristics. #249P is releasable, non-flammable, non-hazardous and water resistant. It provides a strong, long lasting bond. #249P is designed for the installation of dimensionally stable vinyl tile & plank in a releasable application. Due to its pressure sensitive characteristics, #249P eliminates concern about installing a non-porous backed floor covering over a non-porous substrate.

SPREAD RATE

Please note the spread rate or coverage area listed is for estimation purposes only, and is dependent on the variables and conditions of the installment area.

| | |
|--------------|----------------------------|
| #249P | PER 4 GALLONS |
| Porous: | APPROX 800-900 sq. ft. |
| Non-Porous: | APPROX 1,000-1,100 sq. ft. |

INSTALLATION INSTRUCTIONS

SUBFLOORS SUITED FOR APPLICATION

- Concrete
- Portland Based Underlayments
- Properly Prepared Gypsum
- APA Approved Plywood
- Terrazzo
- Fiber Cement Underlayment
- Radiant Heated Subfloors
- Properly Prepared VCT (Single Layer)

SUBFLOOR PREPARATION

#249 P can be used over all grade levels of concrete in the absence of excessive moisture and alkalinity. Moisture tests are required on all concrete sub-floors regardless of grade level if the concrete is freshly poured or is classified as an older slab. Moisture testing should be performed by ASTM F1869 Calcium Chloride Tests with moisture levels not to exceed 5 lb. per 24 hours per 1,000 sq. ft. or ASTM F2170 In Situ Relative Humidity Test (RH) with moisture levels not to exceed eighty 80% on concrete slabs. Additional information with regard to these tests and results can be obtained through Parterre's Technical Support.

APPLICATION

- Refer to all Parterre's recommendations prior to installation to determine suitability of all materials to be used, approved substrates, subfloor preparation, etc.
- Subfloor must be clean, dry, smooth and free of any contamination, which may interfere with the adhesive bond.
- Where subfloor is extremely porous, adhesive absorption may be in question, therefore it is recommended that the subfloor be primed with a recommended primer.
- Refer to all Parterre's recommendations regarding layout, cutting, seaming and maintenance.

- Spread adhesive using the recommended trowel. Use the dry installation method in “tile over tile” applications and for situations requiring a releasable installation.
- Roll floor covering immediately with three-section 100 lb. roller.
- Do not wet clean floor covering for a minimum of 14 days. This will allow the adhesive to properly cure.
- Once adhesive turns clear, floor covering must be placed within 2-4 hours MAXIMUM.
- For wall installations of LVT use a 3/8” short nap roller. Full spread only (no perimeter installation). Allow the adhesive to become dry to the touch (no transfer to finger), and install tile.

RESTRICTIONS

- For interior installations only.
- Do not install over adhesive residue including cutback.
- Do not install when MVER is over 5 lb. per 1,000 sq. ft. per 24 hours, per ASTM F1869.
- Do not install when relative humidity (RH) is over 80%, per ASTM F2170.
- Do not install when ambient temperature is not between 60°F and 95°F.
- Do not install when ambient relative humidity is above 65%.
- The dimensional stability of some vinyl flooring products is very sensitive to fluctuations in ambient environment conditions.
- Parterre Flooring Systems is not responsible for installation issues caused by dimensional changes in flooring.
- It is the sole responsibility of the installer to determine the suitability and compatibility of the adhesive for the user’s intended use.

CLEAN-UP

Remove wet adhesive immediately with a damp cloth. Use mineral spirits to remove dried adhesive. **Caution: Mineral spirits are flammable. Read and follow all precautions on container label.**

PHYSICAL PROPERTIES:

- Drying time: 30-45 minutes depending on ambient conditions
- Working time: 2-4 hours
- Shelf life: 1 year in unopened container
- Moisture Vapor Emission: 5 lb. per ASTM F1869, 80% per ASTM F2170
- pH must be between 7-10
- Freeze thaw stable 5 cycles at 20°F