

Installation Guide

Base Preparation

- I. **GENERAL INFORMATION** The **VersaDUEL** line of products for impact sound insulation is engineered to provide better performance than any other sound control product available and has been rigorously tested to achieve proven results. Made from up to 94% recycled rubber content and backed by over 100 independent laboratory and field tests, **VersaDUEL** has been selected and used in some of the best hotels and condominiums in the world.

With the use of **Pliteq FAS1** adhesive, it can be installed over a variety of subfloors and underlayments. All floor covering assemblies shall have prior approval before installation.

II. JOB SITE CONDITIONS

Areas to receive **VersaDUEL** should be weather-tight and maintained at a minimum, a constant room temperature between 65°F - 95°F (18°C - 35°C) for 48 hours before, during, and after installation.

III. SUBFLOOR REQUIREMENTS AND PREPARATION

NOTE: Please follow the subfloor requirements and preparation recommendations determined by the flooring manufacturer. Use the following subfloor requirements and preparation guidelines only when no such recommendations exist for the floor finishing product.

1. All subfloors/substrates must be inspected prior to installation.
2. Install **VersaDUEL** over wood, concrete, and approved self-levelling materials.
3. Wood subfloors should be double-construction with a minimum thickness of one inch. The floor must be rigid and free from movement with a minimum of 18 inches of well-ventilated air space below.
4. Wood subfloors (when installed with the use of grouted floor coverings like tile) must be prepared according to ANSI L/360 standards, as required by the floor covering manufacturer.
5. Concrete floors must be fully cured and permanently dry. The subfloor shall be dry, clean, smooth, level, and structurally sound. It should be free of dust, solvent, paint, wax, oil, grease, asphalt, sealers, curing and hardening compounds, alkaline salts, old adhesive residue, and other extraneous materials, according to ASTM F710.
6. The subfloor should be smooth to prevent irregularities, roughness, or other defects from affecting the material above it. The surface should be flat to the equivalent of 3/16" in 10', as described in ACI 117R, or as recommended by the floor manufacturer.
7. Mechanically remove all traces of old adhesives, paint, or other debris by scraping, sanding, or scarifying the substrate. DO NOT use solvents.



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8. Grind high spots until level and fill low spots with an approved leveling compound.
9. All saw cuts (control joints), cracks, indentations, and other non-moving joints in the concrete must be filled with an approved patching/levelling compound. Allow patching material to dry thoroughly.
10. Any concrete subfloor can be a source of moisture-related flooring failures. It is the installer's responsibility to test the concrete or other cement-like material for moisture.
11. Maximum moisture vapor emission of the concrete must not exceed 5 lbs/1,000 ft² in a 24-hour period, as measured by the calcium chloride test method in accordance with the ASTM F1869 standard. If vapor emissions exceed acceptable limits, **Pliteq FASHM** adhesive must be used for conditions up to 10 lbs/1,000 ft² in 24 hours, or a **Pliteq** recommended vapor retardant must be used.
12. **Pliteq FAS1** adhesive can be used for relative humidity conditions up to a maximum of 100%, as measured by the relative humidity test method in accordance with the ASTM F2170 standard. If relative humidity exceeds acceptable limits, please contact your local Pliteq engineer.

IV. HAZARDS

A. SILICA WARNING

Concrete, floor patching compounds, toppings, and levelling compounds can contain free crystalline silica. Cutting, sawing, grinding, or drilling can produce respirable crystalline silica (particles 1-10 micrometers). Respirable silica is classified by OSHA as a 1A carcinogen and is known to cause respiratory diseases like silicosis. Avoid actions that cause dust to become airborne. Use local or general ventilation or protective equipment to reduce exposure below applicable exposure limits.

B. LEAD WARNING

Certain paints may contain lead. Exposure to excessive amounts of lead dust presents a health hazard. Refer to applicable federal, state, and local laws and the publication, *Lead Based Paint: Guidelines for Hazard Identification and Abatement in Public and Indian Housing*, available from the United States Department of Housing and Urban Development.

C. ASBESTOS WARNING

Resilient flooring, backing, lining felt, paint, or asphaltic "cutback" adhesives could contain asbestos fibers. Avoid actions that cause dust to become airborne. DO NOT sand, dry sweep, dry scrape, drill, saw, beadblast, mechanically chip, or pulverize. Regulations may require that the material be tested to determine asbestos content. Consult the documents titled, *Recommended Work Practices for Removal of Existing Resilient Floor Coverings*, available from the Resilient Floor Covering Institute.



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V. MATERIAL STORAGE AND HANDLING

1. Deliver the material to the job site in its original unopened packaging with all labels intact and stored appropriately to prevent damage.
2. Inspect all material for visual defects before beginning the installation. **Pliteq** will honor no labor or shipping claims on material installed with any visually apparent defects.
3. Verify the material delivered is the correct type, thickness, and amount. Report any discrepancies immediately.
4. The material and any adhesive must be acclimated at room temperature for a minimum of 24 hours before starting the installation.
5. Roll material is stretched slightly when it is rolled at the factory. At the job site, the installer should allow all cuts to relax before gluing down. Shaking the material once it is unrolled can help it to relax more quickly.

Products

I. VersaDUEL 9

DESCRIPTION & APPLICATION

A durable pre-bonded dual-layer floor system, available in Rolls. Made from recycled rubber and EPDM granules, it is designed for impact reduction and injury prevention in fitness centers and high-traffic areas. It provides shock absorption, vibration damping, and noise control for various environments.

VersaDUEL flooring reduces impacts from falling/dropping objects, eases fatigue, reduces joint and muscle stress, and prevents repetitive motion injuries and discomfort from standing for long periods of time.

II. VersaDUEL 12

DESCRIPTION & APPLICATION

A durable pre-bonded dual-layer floor system, available only in Rolls. Made from recycled rubber and EPDM granules, it is designed for impact reduction and injury prevention in fitness centers and high-traffic areas. It provides shock absorption, vibration damping, and noise control for various environments.

VersaDUEL flooring reduces impacts from falling/dropping objects, eases fatigue, reduces joint and muscle stress, and prevents repetitive motion injuries and discomfort from standing for long periods of time.



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III. VersaDUEL 15

DESCRIPTION & APPLICATION

A durable pre-bonded dual-layer floor system, available in three formats: Roll, Square Edge Tiles, and Large Square Edge Tiles. Made from recycled rubber and EPDM granules, it is designed for impact reduction and injury prevention in fitness centers and high- traffic areas. It provides shock absorption, vibration damping, and noise control for various environments.

VersaDUEL flooring reduces impacts from falling/dropping objects, eases fatigue, reduces joint and muscle stress, and prevents repetitive motion injuries and discomfort from standing for long periods of time.

IV. VersaDUEL 20

DESCRIPTION & APPLICATION

A durable pre-bonded dual-layer floor system, available in three formats: Roll, Square Edge Tiles, and Large Square Edge Tiles. Made from recycled rubber and EPDM granules, it is designed for impact reduction and injury prevention in fitness centers and high- traffic areas. It provides shock absorption, vibration damping, and noise control for various environments.

VersaDUEL flooring reduces impacts from falling/dropping objects, eases fatigue, reduces joint and muscle stress, and prevents repetitive motion injuries and discomfort from standing for long periods of time.

V. VersaDUEL 25

DESCRIPTION & APPLICATION

A durable pre-bonded dual-layer floor system, available in three formats: Roll, Square Edge Tiles, and Large Square Edge Tiles. Made from recycled rubber and EPDM granules, it is designed for impact reduction and injury prevention in fitness centers and high-traffic areas. It provides shock absorption, vibration damping, and noise control for various environments.

VersaDUEL flooring reduces impacts from falling/dropping objects, eases fatigue, reduces joint and muscle stress, and prevents repetitive motion injuries and discomfort from standing for long periods of time.



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VI. VersaDUEL 30

DESCRIPTION & APPLICATION

A durable multi-layer rubber floor system, featuring a base layer and a pre-bonded dual-layer finished layer, available in three formats: Roll, Square Edge Tiles, and Large Square Edge Tiles. Made from recycled rubber and EPDM granules, it is designed for impact reduction and injury prevention in fitness centers and high-traffic areas. It provides shock absorption, vibration damping, and noise control for various environments.

VersaDUEL flooring reduces impacts from falling/dropping objects, eases fatigue, reduces joint and muscle stress, and prevents repetitive motion injuries and discomfort from standing for long periods of time.

VII. VersaDUEL 50

DESCRIPTION & APPLICATION

A durable multi-layer rubber floor system, featuring a dimpled base, interstitial layer, and a pre-bonded dual-layer finished layer, available in three formats: Roll, Square Edge Tiles, and Large Square Edge Tiles. Made from recycled rubber and EPDM granules, it is designed for impact reduction and injury prevention in fitness centers and high-traffic areas. It provides shock absorption, vibration damping, and noise control for various environments.

VersaDUEL flooring reduces impacts from falling/dropping objects, eases fatigue, reduces joint and muscle stress, and prevents repetitive motion injuries and discomfort from standing for long periods of time.

VIII. VersaDUEL 70

DESCRIPTION & APPLICATION

A durable multi-layer rubber floor system, featuring a dimpled base, interstitial layer, and a pre-bonded dual-layer finished layer, available in three formats: Roll, Square Edge Tiles, and Large Square Edge Tiles. Made from recycled rubber and EPDM granules, it is designed for impact reduction and injury prevention in fitness centers and high-traffic areas. It provides shock absorption, vibration damping, and noise control for various environments.

VersaDUEL flooring reduces impacts from falling/dropping objects, eases fatigue, reduces joint and muscle stress, and prevents repetitive motion injuries and discomfort from standing for long periods of time.



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IX. Pliteq FAS1

DESCRIPTION

Pliteq FAS1 is a one-component, 100% solids, polyurethane-based adhesive. It is solvent free, low-odor, compliant to SCAQMD Rule 1168 for VOC content by containing zero VOCs and does not contain any materials listed on California Proposition 65. This specially formulated adhesive has good early strength buildup for immediate grab and quickly builds into an aggressive bond. When used according to directions this adhesive forms a solid membrane below the flooring to protect it from subfloor moisture.

APPLICATION

Pliteq FAS1 is ideal for glue-down installations, for **GenieMat®** sound control underlayments, **GenieMat** finished floors including **GenieMat FIT** tiles, a broad variety of vinyl/rubber/linoleum floors, all types of engineered, solid or acrylic impregnated wood flooring and bamboo. Approved substrates and surfaces for **Pliteq FAS1** include, APA underlayment grade plywood and OSB; cement backer board; cementitious and anhydrite screeds; concrete and radiant heated subfloors that do not exceed 85°F (30°C); gypsum and lightweight concrete (primed with **Pliteq FAS-PS**); terrazzo (properly prepared with all waxes and surface finishes removed).



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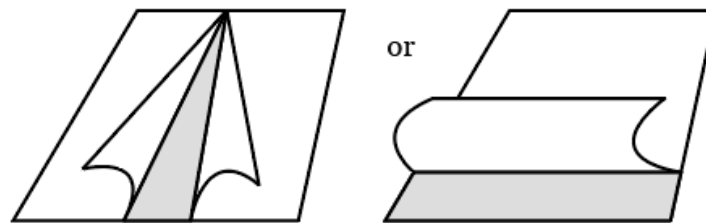
I. VersaDUEL

A. VersaDUEL 9 ROLL INSTALLATION

VersaDUEL 12 ROLL INSTALLATION

VersaDUEL 15 ROLL INSTALLATION

1. Roll out the rolls.
2. Let rolls relax for at least 24 hours inside the space they will be installed.
3. Place the roll into position, cut to size using a utility knife and dry fit the material into place. Stagger and overlap the end seams by around 3-6 inches. After allowing for acclimation, use a square to trim the end seams for a snug fit without any gaps.
4. Place adjacent rolls in position, overlapping seams of **VersaDUEL** by 1/16" (no more than 1/8").
5. All seams must be staggered by at least 20". However, staggering by a longer distances are more visually appealing.
6. If the rolls don't extend the entire length or width of the room, it might be necessary to trim the edge of the second linear drop. Keep in mind that aligning rolls with a width difference of over 1/4" could lead to seams that peak.
7. Roll back half the roll along either the long seam or short seam.

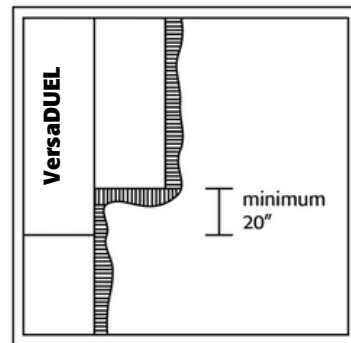


8. Trowel out adhesive into the newly exposed subfloor using an appropriate notch trowel from the adhesive product specification guide. The **Pliteq FAS1** adhesive is a wet set adhesive. Do not let adhesive flash. Open time is a maximum of 30 minutes.

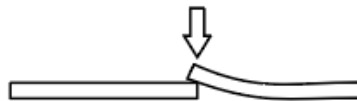


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9. Fold the material back over by walking it back into place as the material can become misaligned without proper care.

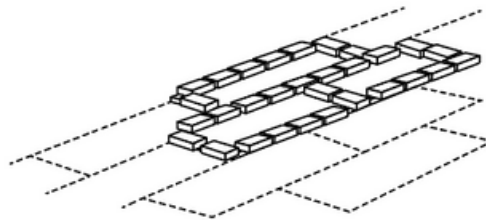


10. Once roll is completely laid out, push down overlapped seam with a hand roller to be flush with adjacent roll. Do this for both long and short seams.



11. Roll the **VersaDUEL** using the 50 lb (20 kg) roller.

12. Lay out bricks along both long and short seams covering 100% of the seams. Use sufficient weight to hold the material flat to the subfloor.



Note: Allow for a minimum of 24 hours for the adhesive to cure prior to removing any bricks.



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B. VersaDUEL 15 Square Edge Tile INSTALLATION

VersaDUEL 20 Square Edge Tile INSTALLATION

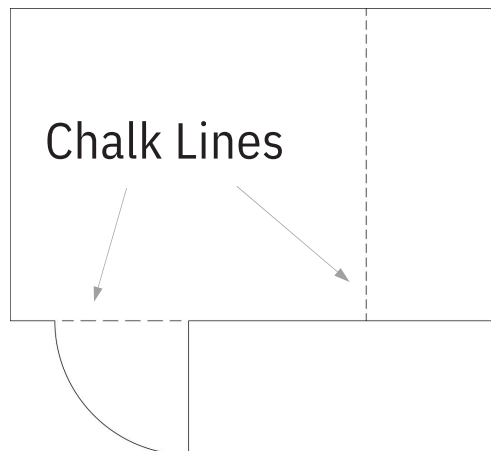
VersaDUEL 25 Square Edge Tile INSTALLATION

VersaDUEL 15 Large Square Edge Tile INSTALLATION

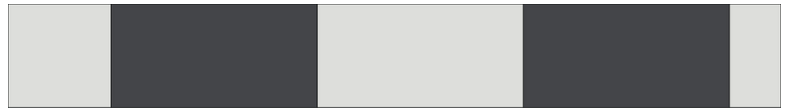
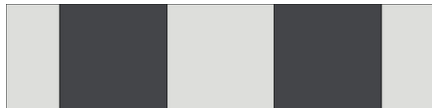
VersaDUEL 20 Large Square Edge Tile INSTALLATION

VersaDUEL 25 Large Square Edge Tile INSTALLATION

1. Square the room and chalk out any perimeter points on the floor.



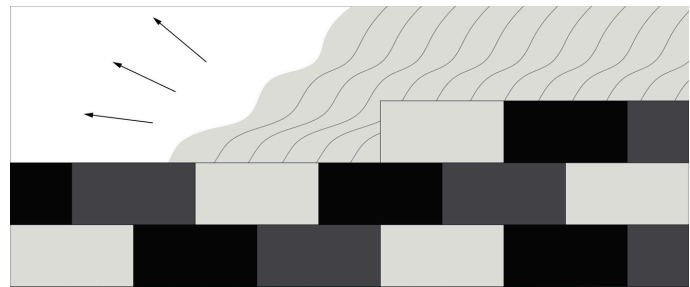
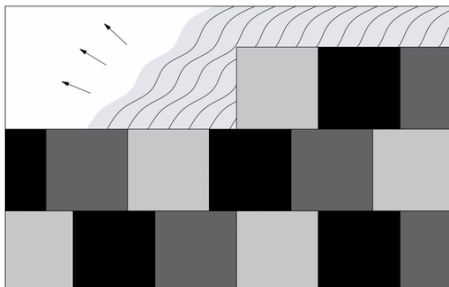
2. Try to avoid pieces less than 3" where possible. If overall room dimensions create one side that is less than 3", then shift the tile layout.



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3. Apply adhesive to one row of tiles at a time, keeping in mind the working time of the adhesive.
4. Carefully place material into the wet adhesive as to not “flop” the material into the wet adhesive. This can entrap air and displace the adhesive which can cause air pockets under the tile. Proper adhesive transfer should be confirmed throughout the installation by periodically lifting the tile to inspect its backing for a minimum of 95% adhesive transfer.

WARNING: Walking on, standing on or kneeling on freshly laid flooring before the adhesive has had the chance to properly cure can cause displacement of the adhesive. This can result in indentations and/or bubbling of the tiles. Knee boards are recommended during installation and 1/8-inch Masonite or 1/4-inch plywood is recommended to protect the flooring after the installation.



5. It is recommended to install the rows in a brick pattern as shown in the image above. The tile seams should also be worked manually so that they are perfectly flat and tight (butted together).
6. If adhesive is spilled on the tile, swap it for a new tile. You may be able to use this tile as a perimeter cut still. If adhesive oozes up to the surface from the seams of the tiles use a damp cloth to clean the tile while the adhesive is still fresh.
7. Use masking/painters/stucco tape to help close any small gaps in the seams and to keep material in place while adhesive sets.
8. Roll the adhered flooring with a 50 lb (20 kg) roller, slowly, in perpendicular directions. This must be done soon after gluing. Do not wait until completing the entire installation before rolling as the adhesive may have surpassed the open time and cured. After rolling, inspect material for any remaining air pockets. All entrapped air must be removed before proceeding.
9. If necessary, apply bricks over any stubborn seams or areas that need assistance to remain flat into the adhesive while it cures. Keep weights on a minimum of 24 hours.
10. No foot traffic shall be allowed onto the flooring for a minimum of 24 hours after the installation. No heavy traffic or rolling loads shall be allowed for a minimum of 72 hours after the installation.



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C. VersaDUEL 30 INSTALLATION

1. Roll out the 15mm thick rolls.
2. Allow the rolls to acclimate and relax for a minimum of 24 hours in the space designated for installation.
3. Place roll into position and trim to size using utility knife.

NOTES:

1. All seams must be snug and trimmed as required, while being staggered and offset from one another by at least 20".
 2. No adhesive is required for the installation of the 15mm thick roll.
4. Proceed with the installation of the top VersaDUEL15 layer in either roll format (A) or Square Edge/Large Square Edge Tile format (B) as outlined above. It is important that this layer is installed perpendicular to the previous layer, ensuring that seams are offset and staggered. This installation will require the use of **Pliteq FAS1** adhesive.

D. VersaDUEL 50 INSTALLATION

1. Roll out the 06mm thick dimpled rolls dimpled side down.
2. Allow the rolls to acclimate and relax for a minimum of 24 hours in the space designated for installation.
3. Place roll into position and trim to size using utility knife.

NOTES:

1. All seams must be snug and trimmed as required, while being staggered and offset from one another by at least 20".
 2. No adhesive is required for the installation of the 06mm thick dimpled roll.
4. Stage the 27mm thick sheets and allow them to acclimate and relax for at least 24 hours in the intended installation space.



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5. Install the 48-inch side of the sheets perpendicularly to the previously installed 06mm thick dimpled roll layer, proceeding one 48-inch wide row at a time. As you reach the end of each row, slightly overlap the material and use a utility knife to trace cut the bottom sheet. The cut-off piece may then be utilized to start the next row. Before commencing the next row, use a chalk line to mark a line along the end of the installed row to trim at least 1 inch off the 48-inch length. Continue this process with the subsequent rows, ensuring each is offset and staggered from the previous one.

NOTES:

1. All seams must be snug and trimmed as required, while being staggered and offset from one another.
2. No adhesive is required for the installation of the 27mm thick sheet

6. Proceed with the installation of the top **VersaDUEL15** layer in either roll format (A) or Square Edge/Large Square Edge Tile format (B) as outlined above. It is important that this layer is installed perpendicular to the previous layer, ensuring that seams are offset and staggered. This installation will require the use of **Pliteq FAS1** adhesive.

E. VersaDUEL 70 INSTALLATION

1. Roll out the 25mm thick dimpled rolls dimpled side down.
2. Allow the rolls to acclimate and relax for a minimum of 24 hours in the space designated for installation.
3. Place roll into position and trim to size using utility knife.

NOTES:

1. All seams must be snug and trimmed as required, while being staggered and offset from one another by at least 20".
2. No adhesive is required for the installation of the 25mm thick dimpled roll.

4. Stage the 27mm thick sheets and allow them to acclimate and relax for at least 24 hours in the intended installation space.



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5. Install the 48-inch side of the sheets perpendicularly to the previously installed 25mm thick dimpled roll layer, proceeding one 48-inch wide row at a time. As you reach the end of each row, slightly overlap the material and use a utility knife to trace cut the bottom sheet. The cut-off piece may then be utilized to start the next row. Before commencing the next row, use a chalk line to mark a line along the end of the installed row to trim at least 1 inch off the 48-inch length. Continue this process with the subsequent rows, ensuring each is offset and staggered from the previous one.

NOTES:

1. All seams must be snug and trimmed as required, while being staggered and offset from one another.
2. No adhesive is required for the installation of the 27mm thick sheet.

6. Proceed with the installation of the top **VersaDUEL15** layer in either roll format (A) or Square Edge/Large Square Edge Tile format (B) as outlined above. It is important that this layer is installed perpendicular to the previous layer, ensuring that seams are offset and staggered. This installation will require the use of **Pliteq FAS1** adhesive.

