



SPECIALIZED FITNESS RESOURCES

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SFR Dual Core Technical Manual **Installation • Maintenance • Warranty**

Manufactured in the U.S.A. by:



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Supersedes all previous versions.
Check website for updates.

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Installation

JOB SITE CONDITIONS

1. Installation should not begin until after all other trades are finished in the area. If the job requires other trades to work in the area after the installation of the floor, the floor should be protected with an appropriate cover. Kraft paper or plastic works well.
2. Areas to receive flooring should be weather tight and maintained at a minimum uniform temperature of 65°F (18°C) for 48 hours before, during, and after the installation.

I. SUBFLOORS

SFR Dual Core sports surfacing rolls may be installed over concrete, approved Portland- based patching and leveling materials, and wood.

NOTE: Gypsum-based patching and leveling compounds are not acceptable.

1. Wood Subfloors – 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.
2. Underlayments – The preferred underlayment panel is American Plywood Association (APA) underlayment grade plywood, minimum thickness of 1/4-inch, with a fully sanded face.

NOTE: Particleboard, chipboard, Masonite and lauan are not considered to be suitable underlayments.

3. Concrete Floors – Concrete shall have a minimum compressive strength of 3000 psi. New concrete slabs should cure for a minimum of 28 days before installing rolls. It must be fully cured and permanently dried.

III. SUBFLOOR REQUIREMENTS AND PREPARATION

1. Subfloors shall be dry, clean, smooth, level, and structurally sound. They 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.
2. Subfloors should be smooth to prevent irregularities, roughness, or other defects from telegraphing through the new flooring. The surface should be flat to the equivalent of 3/16" (4.8 mm) in 10' (3.0 m).
3. Mechanically remove all traces of old adhesives, paint, or other debris by scraping, sanding, or scarifying the substrate. Do not use solvents. All high spots shall be ground level and low spots filled with an approved Portland-based patching compound.
4. All saw cuts (control joints), cracks, indentations, and other non-moving joints in the concrete must be filled with an approved Portland-based patching compound.

5. Expansion joints in the concrete are designed to allow for expansion and contraction of the concrete. If a floor covering is installed over an expansion joint, it will likely fail in that area. Use expansion joint covers designed for resilient flooring.
6. Always allow patching materials to dry thoroughly and install according to the manufacturer's instructions. Excessive moisture in patching material may cause bonding problems or a bubbling reaction with adhesive.
7. Moisture must be measured using the RH Relative Humidity test method per ASTM F2170 standard. Moisture content should not exceed 85% RH. If the levels exceed the limitations, the installation should not proceed until the situation has been corrected.
8. In the event that a moisture mitigation system is required, it must conform to the ASTM F3010 Standard Practice for Two-Component Resin Based Membrane Forming Moisture Mitigation Systems for use Under Resilient Floor Coverings.
9. It is essential that pH tests be taken on all concrete floors. If the pH is greater than 9, it must be neutralized prior to beginning the installation.
8. Adhesive bond tests should be conducted in several locations throughout the area. Glue down 3' x 3' test pieces of the flooring with the recommended adhesive and trowel. Allow to set for 72 hours before attempting to remove. A sufficient amount of force should be required to remove the flooring and, when removed, there should be adhesive residue on the subfloor and on the back of the test pieces.

HAZARDS:

SILICA WARNING – Concrete, floor patching compounds, toppings, and leveling compounds can contain free crystalline silica. Cutting, sawing, grinding, or drilling can produce respirable crystalline silica (particles 1-10 micrometers). Classified by OSHA as an IA carcinogen, respirable silica is known to cause silicosis and other respiratory diseases. Avoid actions that may cause dust to become airborne. Use local or general ventilation or provide protective equipment to reduce exposure to below the applicable exposure limits.

ASBESTOS WARNING – Resilient flooring, backing, lining felt, paint, or asphaltic “cutback” adhesives can contain asbestos fibers. Avoid actions that cause dust to become airborne. Do not sand, dry sweep, dry scrape, drill, saw, beadblast, or mechanically chip or pulverize. Regulations may require that the material be tested to determine the asbestos content. Consult the document “Recommended Work Practices for Removal of Existing Resilient Floor Coverings” available from the Resilient Floor Covering Institute.

LEAD WARNING – Certain paints can 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.

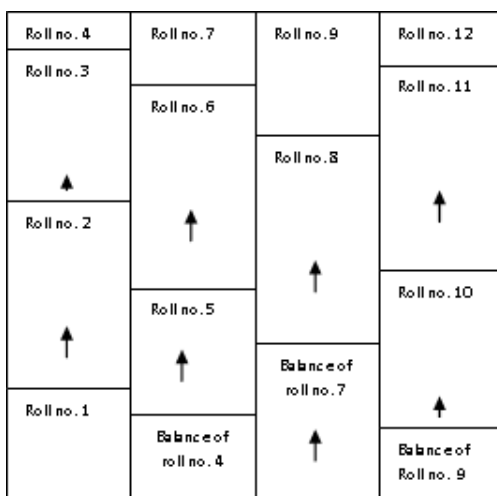
IV. MATERIAL STORAGE AND HANDLING

1. Material should be delivered to the job site in its original, unopened packaging with all labels intact.
2. Note: Shipping pallets, cradles, banding, etc. are not intended for storage. Roll material should always be stored laying down. Storing rubber on end will curl the edges resulting in permanent memory of the material. All edges with memory curl must be straight edge cut before installation. Do not store rolls higher than 4 rolls or for more than six months. Material should only be stored on a clean, dry, smooth surface. Rolls should be stored with the end of the sheet facing up. If rubber is stored upside down the weight of the roll may cause the end of the sheet to compress, resulting in residual indentation.
3. **Inspect all materials for visual defects before beginning the installation. No labor claim will be honored on material installed with visual defects. Verify the material delivered is the correct style, color, and amount. Any discrepancies must be reported immediately before beginning installation.**

Note: SFR cannot be responsible for any resulting shading issues in color series 504 through 511.

NOTE: SFR Dual Core is manufactured from recycled materials and slight variance in shade and color chip dispersion is normal. It is the installer's responsibility to inspect all products to insure the correct style, thickness, and color. Any moderate to severe discrepancies should be reported immediately before beginning the installation.

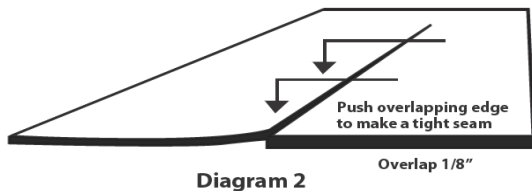
4. The material and adhesive must be acclimated at room temperature for a minimum of 48 hours before starting installation.
5. Roll material is stretched slightly during the manufacturing process. At the job site, the installer should unroll all cuts and allow to relax overnight. A bare minimum of two hours is required. Shaking the material once it is unrolled can help it to relax.
6. **All rolls must be unrolled and installed in the same direction. See diagram. Laying rolls in the opposite direction will cause color variations between the rolls.**



7. **Custom roll lengths eliminate the possibility of the rolls being manufactured and numbered in the customers desired installation sequence, and SFR cannot be responsible for any resulting shading issue.**
8. Rolls are labeled with batch numbers and roll numbers. Do not mix batch numbers together and install all rolls in consecutive order.

V. INSTALLATION – DRY LAY AND PREPARATION

1. Make the assumption that the walls you are butting against are not straight or square. Using a chalk line, make a starting point for an edge of the flooring to follow.
2. Remove the Dual Core from the shrink-wrap and unroll it onto the floor. Lay the Dual Core on the floor in a way that will use your cuts efficiently. Cut all rolls at the required length, including enough to run up the wall.
3. Allow the material to acclimate and relax for a minimum of 2 hours but preferably overnight.
4. Place the edge of the first roll along the chalk line.
5. Snap a chalk line where the seam will be located. If necessary, straight cut the seam edge of first piece. Align the first edge to the chalk line; it is very important that the seam is perfectly straight. If necessary, straight edge seam edge of second lineal drop if the first roll does not extend the length or width of the room. If end seams are necessary, they should be staggered on the floor and overlapped approximately 3-6".
6. Some thicker versions of the Dual Core such as the 18mm can be difficult to cut. It is recommended to trace cut these carefully and preferred to cut at a slight bevel, causing the bottom layer to be slightly shorter than the finished top layer. If the bevel is cut in the wrong direction, gaps will be seen on the top finished surface.
7. Position the second row with no more than a 1/8" overlap over the first roll at the seam. After adhesive is applied to substrate, the material will be worked back to eliminate the overlap. This procedure will leave tight seams and eliminate any gaps. Care should be taken to not over compress the seam. Over compressed seams will cause peaking and bond failure at seam edge.



NOTE: Over compressing the seam will result in bond failure / peaked seams at the seam edge.

8. **It may be possible to order the rolls either the entire width or length of the room. If rolls span from one side of the room to the other to reduce the number of seams and labor required to install the product.**
9. **Caution: Custom roll lengths eliminate the possibility of the rolls being manufactured and numbered in the customer's desired installation sequence, and SFR cannot be responsible for any resulting shading issue.**

10. Repeat for each consecutive roll necessary to complete the area or those rolls that will be installed that day.

VI. INSTALLATION – ADHERING THE ROLLS

1. After performing the above procedures, begin the application of the adhesive. We recommend Adhesive and it should not be mixed; use it right out of the pail.
2. Fold over the first drop along the wall (half the width of the roll).
3. Spread the adhesive using a **1/16" square- notched trowel**. Take care not to spread more Adhesive than can be covered with flooring within 30 minutes. The open time of the adhesive is 30–40 minutes at 70°F and 50% relative humidity.

NOTE: Temperature and humidity affect the open time of the adhesive. Temperatures above 70°F and/or relative humidity above 50% will cause the adhesive to set up more quickly. Temperatures below 70°F and/or relative humidity below 50% will cause the adhesive to set up more slowly. The installer should monitor the on-site conditions and adjust the open time accordingly.

4. Lay the flooring into the wet adhesive. Do not allow the material to “flop” into place; this may cause air entrapment and bubbles beneath the flooring.
5. Immediately roll the floor with a 100 lb. three section flooring roller to ensure proper adhesive transfer. Overlap each pass of the roller by 50% of the previous pass to ensure the floor is properly rolled. Roll the width first and then the length. Roll a second time within 60 minutes.
6. Fold over the second half of the first roll and half of the second roll. Spread the adhesive. Spread the adhesive at right angles to the seam to achieve full coverage across the seam. Roll the flooring.
7. If one side of the seam is slightly higher than the other, use a small J type hand roller, applying pressure on the high side to level out.
8. Continue the process for each consecutive drop. Work at a pace so that you are always folding material back into wet adhesive.

NOTE: Never leave adhesive ridges or puddles. They will telegraph through the material.

9. Do not allow Adhesive to cure on your hands or the flooring. Cured adhesive is very difficult to remove. We strongly suggest wearing gloves while using Adhesive. Immediately wipe off excess adhesive with a rag slightly dampened with mineral spirits. Follow the mineral spirits with a rag dampened with water to remove the mineral spirits.

NOTE: Use mineral spirits sparingly. Saturating the rubber with mineral spirits may darken the flooring and cause the adhesive to be pushed too deeply into the pores of the rubber.

10. If some seams are gapping it is possible to hold them together temporarily with blue painters tape. Tape **MUST** be removed after adhesive has developed a firm set which is approximately 2-3 hours. Allowing tape to remain longer than 2-3 hours or using aggressive tapes may result in adhesive residue. SFR will not be responsible for residue left behind from tape of any kind.
11. In some instances, it may be necessary to weigh down the seam until the adhesive develops a firm set. Boxes of cove base or tile work well. Keep traffic off the floor for a minimum of 24 hours. Floor should be free from rolling loads for a minimum of 72 hours. Foot traffic and rolling loads can cause permanent indentations or bond failure in the uncured adhesive

Maintenance

SFR recommends our environmentally friendly SFR Cleaner and SFR Strip.

FLOOR PROTECTION

The specifier should include specification details to protect the floor post-installation and until job construction is complete, such as covering the entire floor with paper or other floor covering device (plastic, plywood, etc.) until construction is completed and thorough cleaning and maintenance can be implemented.

ASSIGNMENT OF CLEANING AND MAINTENANCE

The specifier should determine and assign the responsibility for the initial cleaning and finishing. This responsibility should be specifically assigned to the flooring contractor, general contractor, maintenance contractor, or owner.

The recommendations contained in this manual are listed because of their extensive testing and field experience with the Dual Core product. These instructions are given only as guidance to our customers and for use with our recommended tools and adhesives. SFR cannot accept any responsibility for loss or damage that may result from the use of this information due to variations in working conditions and/or workmanship of the installer. Users are advised to conduct their own tests for a particular application and assign installers that are familiar with this type of flooring product.

Inspect all rolls for visual defects including shade variances prior to beginning installation. No labor claim will be honored on material installed with visual defects or shade variances. Any discrepancies must be reported immediately before beginning installation. Ensure that all job site and subfloor conditions are met.

Steps	Cleaning Product	Mixture	Equipment
Initial Cleaning	SFR Cleaner	10 oz./gal. water	Microfiber mop, Soft Nylon Brush or 3M 5100 Red Pad or equal
Daily Cleaning	SFR Cleaner	2-4 oz./gal. water	Microfiber Mop, Soft Nylon Brush or 3M 5100 Red Pad or equal
Heavy Soil & Restorative Cleaning	SFR Cleaner SFR Strip	10 oz. / gal water 16 oz./gal. water	Brown 7100 or Black 7200 pad as req'd. (Do not use High Productivity Pad)

VIII. CLEANING PROCEDURES

1. Initial Cleaning

- Remove all surface soil and debris by sweeping, mopping or vacuuming.
- Scrub floor with SFR Cleaner (10 oz./gal. of water), using buffer or auto scrubber with a soft nylon brush or red pad. Avoid flooding the floor.
- Pick up solution with a wet vacuum, rinse with clean water, and allow to thoroughly dry (6-8 hrs).

2. Daily/Regular Cleaning

- Remove all surface soil and debris by sweeping, mopping, or vacuuming
- Scrub with SFR Cleaner & microfiber mop, buffer or auto scrubber using red pad or soft nylon brush.

3. Heavy Soil and Restorative Cleaning

- Remove all surface soil and debris by sweeping, mopping or vacuuming.
- Aggressively scrub the floor with cleaner or stripper and brown or black pad, auto scrubber or rotary scrubber.
- Pick up solution with a wet vacuum, rinse with clean water, and allow to thoroughly dry (6-8 hours).
- Repeat as required.

Warranty

All SFR rubber flooring is guaranteed by SFR to be free from manufacturing defects on both material and workmanship. If such a defect is discovered, the customer must notify SFR either through the contracting installer, distributor, or directly. If found to be defective within three years under normal non-abusive conditions, the sole remedy against the seller will be the replacement or repair of the defective goods, or at the seller's option, credit may be issued not exceeding the selling price of the defective goods.

This warranty shall not cover dissatisfaction due to improper installation, damage from improper maintenance or usage, or general misuse, including and without limitation: burns, cuts, tears, scratches, scuffs, damage from rolling loads, damage from cleaning products not recommended by SFR, slight shade variations or shade variations due to exposure to direct sunlight, or differences in color between samples or photographs and actual flooring.

Excluded from Warranty

These warranties do not apply to the following:

1. The exact matching of shade, color or mottling.
2. Any express or implied promise made by any salesman or representative.
3. Tears, burns, cuts or damage due to improper installation, improper use or improper cleaning agents or maintenance methods.
4. Wear from chairs or other furniture without proper floor protectors will void the warranty. Care should be taken to protect the flooring from damage by using good quality protective feet for chairs, tables, and other furniture. Chair mats may be required under chairs with casters/wheels.
5. Labor costs for installation of original or replacement material.
6. Sale of "Remnants", "Seconds", "Off Goods" or other irregular (non-first-quality) flooring materials. With respect to "Seconds", "Off Goods", or "Remnants" such are sold "as is," and SFR makes no warranties whatsoever, express or implied with respect thereto, including warranties of merchantability or fitness for a particular purpose.
7. Problems caused by moisture, hydrostatic pressure, or alkali in the sub-floor.
8. Problems caused by uses, maintenance, and installation that are contrary to SFR specifications, recommendations or instructions.
9. Material installed with obvious defects.
10. Damage to flooring products from high heels or spike heels.
11. Damage to flooring products from rubber mats, rubber-backed mats or vehicle tires.
12. Installation with adhesives other than those recommended by SFR.
13. Fading and/or discoloration resulting from heavy sunlight penetration and ultraviolet ray exposure from direct or glass-filtered sunlight.
14. Material that is not installed and maintained as recommended by SFR.
15. Damage to flooring products from pallet jack and tow-motor traffic.
16. Environments where the product will be exposed to animal fats, vegetable oils, grease or petroleum based materials. (i.e.: commercial kitchens or auto repair facilities.)
17. Premature wear and deterioration from spikes and skate blade exposure.
18. Differences in color between products and photography.
19. Embossing / density deviations between product and samples, photography.

These warranties are in lieu of any other warranty expressed or implied. SFR shall not be liable for any incidental or consequential damages which may result from a defect. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. These warranties give you specific rights, and you may also have rights which may vary from state to state. To know what your legal rights are in your state, consult your local or state Consumer Affairs Office or your State Attorney General. For complete and latest warranty information for products within the collection, please visit <https://specializedweb.com/>