



1. INTRODUCTION

SportFloor® Elite System is a multi-layer format flooring system. The top layer (ReAction/ProXL roll) consists of a colored virgin blend rubber roll, factory calendared and vulcanized to a layer of SBR recycled rubber which is field laminated to a base layer of SBR 100% recycled rubber. The slip-resistant, top wear layer is very durable and provides a non-porous, safe, and resilient floor finish.

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- The **ProXL / ReAction** rolls are designed to be adhered to the sub-floor.
- Designed to be used in gyms, hotels, arenas, schools, ski resorts, military bases, fitness centers, community centers or residential buildings.
- Manufactured of high-quality materials and carefully inspected before shipment, however, a quality installation is the responsibility of the installer. The installer needs to verify the accuracy of the order, and materials need to be inspected for damage, defects and satisfactory color match (there may be a slight color variation from the sample provided) prior to installation.

An authorized SportFloor® distributor must be immediately notified of any damages or product irregularities prior to installation and final adhesive application.

ProXL rolls are designed for interior installations only and not recommended for environments where the product will be exposed to oils or petroleum-based materials.

2. QUALITY ASSURANCE

Flooring Contractor/Installer Qualifications

- Flooring contractor shall be experienced in the flooring field and approved by the manufacturer.
- Flooring contractor shall be proficient in installing this type of rubber flooring and have completed at least three projects of similar magnitude and complexity.

3. HANDLING & STORAGE OF MATERIALS

Receive rolls in a careful manner to avoid any damage. Adhesives or surface preparation product containers shall be unbroken and labels intact until time of use. Prevent damage or contamination to materials by water, moisture, freezing, excessive heat, foreign matter, or other causes.

The rolls will arrive on site back rolled, and should be stored on site with adhesives, etc., for at least 48 hours prior to installation (extreme cold or hot conditions may require additional time). Rolls should be removed from pallets and any loading/shipping constraint pressures be removed in order to acclimate to room conditions.



Caution is required on site, as under no circumstances should the rolls be bent, folded, stepped on, or crushed, as this may destroy the material.

Work from all other trades, especially overhead trades, must be complete before installation can begin.

Rubber rolls are susceptible to dimensional changes due to temperature and climate conditions. It is vital that site conditions remain constant within the acceptable working range.

Avoid exposure to direct sunlight as UV rays can alter appearance of colored rubber.



4. INSTALLATION MATERIALS

- SportFloor® ReAction/ProXL Roll – Top Layer
- 100% Recycled Polyurethane Rubber Roll – Base Layer
- Adhesive for base layer to subfloor – only use **SportFloor® 1-part Urethane Adhesive**, solvent- free
- Adhesive for top layer to base layer – only use **SportFloor® 2-part Urethane Adhesive**, solvent- free
- Tools:
 - Sharp utility knife with spare blades
 - Carpenter square & straight edge
- Measuring tape
- Chalk line (for layout)
- Markers (to indicate cut lines)
- Protective gloves & safety glasses
- 2x4 and rubber mallet to align roll edges
- 1.5mm x 1.5mm x 1.5mm (1/16" x 1/16" x 1/16") square notch trowel
- 45 kg (100 lbs) minimum sectional roller
- 50mm (2") masking tape (to secure seams)
- Concrete blocks or bricks for weighting seams
- Kraft paper (to protect flooring from blocks)

5. SUB-FLOOR PREPARATION

The installation of any resilient rubber flooring is only as good as the subfloor it is laid upon. This is especially true when the flooring is glued down. Rough and uneven subfloors can diminish the appearance, cause uneven top surfaces and shorten the life span of such flooring.

We therefore recommend proper preparation of such subfloors as follows:

EXISTING FLOORING

Contact the manufacturer for specific instructions, if installing over existing flooring.

WOOD FLOORS

- New wood subfloors should be association grade plywood installed smooth side up.
- All nails, staples or screw fasteners must be sunk and floated smooth.
- Plywood should be acclimatized for a 48-hour period prior to installation of rolled flooring.
- All wood subfloors must be clean, dry and free of all dust, dirt, and previous floor finishes.
- Patch cracks, holes, and rough or uneven areas with an appropriate cement based leveling compound to manufacturers' standards.

CONCRETE FLOORS

- Ensure subfloor is smooth and level to a tolerance of 3.2mm (1/8 in) in 3.05m (10 ft).
- Ensure concrete floors have cured for minimum 6 weeks.
- **Moisture testing must be completed prior to floor installation.**
Note: Moisture is the single most significant factor that causes bonding failure to the subfloor. Moisture tests must be taken on all concrete floors regardless of age and grade level.
 1. Test shall be in accordance with **ASTM F-1869** Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride.
 2. Emission rates cannot exceed 5 pounds per 1,000 sq. ft. in 24 hours.
 1. Use **ASTM F2170**, the Relative-Humidity Test, as an alternate. Slab not to exceed 80% humidity.
 2. If test results exceed limitations or hydrostatic pressure exists, the installation must not proceed until the problem has been corrected, an approved vapor barrier underlayment is installed, or an acceptable alternate adhesive is used.
 3. All test results must be kept on file and be accessible upon request.
- If lightweight concrete has been used in construction contact North West Rubber's SportFloor® division for recommendations.
- Primed Gypsum underlayment that meets the ASTM F2419 for compressive strength is suitable.
- Ensure existing concrete floors are clean, dry and smooth.
- Remove any wax, paint, varnish, adhesive or any other material that would prevent proper bonding of adhesive.



5.
SUB-FLOOR
PREPARATION
(continued)

- Repair any low spots with a cementitious based patch mix.
- Fill and smooth any rough or porous concrete sub-base prior to installing flooring.

Note: *If concrete sealers, curing compounds, or floor hardeners have been applied, the surface must be prepared to remove these products prior to adhesive application to ensure proper bond.*

CONCRETE FLOORS WITH RADIANT HEATING SYSTEM

- Ensure concrete slab has cured appropriately.
- Prior to flooring installation, the radiant heating system must be operating at between 20°C (70°F) and 30°C (85°F) for minimum 7 days to dissipate any moisture in the concrete and ensure proper bonding conditions.
- Turn radiant heating system off 48 hrs. prior to flooring installation and until min. 48 hrs. after the flooring is installed.
- After installation, turn radiant heating system on again, controlling the temperature up gradually over a 48-hour period to ensure a proper bond.
- Maximum set temperature of radiant heating system must not exceed 30°C (85°F).

6.
CUTTING
SPORTFLOOR®
PROXL / REACTION
TOP LAYER



The rolls can be cut with a utility knife using a straight edge or square as a guide. Round holes can be cut using a hole saw or fine-tooth jigsaw on low speed.

To ensure tight seams at top surface, slightly bevel the cuts.

7.
PRIOR TO
INSTALLATION OF
THE BASE LAYER

- Installation of the rubber flooring will only be as good as the substrate it's installed over. Ensure that the substrate is even, level, clean and in good condition prior to proceeding with the flooring installation.
- **Determine which direction the finish top layer of flooring will run and install the base layer in the direction 90° to the top layer.**
- Roll out the rubber flooring and allow the material to "relax". The material should be acclimated to the installation room temperature for 24 hours.
- Pre-cut rubber rolls being sure to leave 1" to 2" of extra material at the beginning and end of the roll. This will allow for an exact fit against a wall or for seaming at each end. Trim rolls to fit upon adhering to the subfloor. When possible, any cuts should be against the wall.

8.
INSTALLING THE
BASE LAYER

- Review the flooring adhesive usage guidelines for spread rate and open times for curing. Higher temperatures and high humidity will cause the adhesive to set up quickly. Low temperatures and low humidity will cause the adhesive to set at a slower rate. The installer should monitor on-site conditions and adjust according. Do not let adhesive skim over.
- Use a chalk line to ensure a straight and accurate starting point to begin layout of base layer. Begin adhesive application along this line.
- Fold the first base layer roll, lengthwise (half the width of the roll) and spread the **SportFloor® 1-part Urethane Adhesive** over the subfloor using the square-notch trowel.
- Roll the base layer material into the wet adhesive carefully. Dropping the rubber material directly onto the adhesive will trap air under the flooring.
- Immediately roll the rubber flooring with a 100 lb. roller. Roll the width first, then the length. Roll flooring again in 30-45 minutes. Use cement blocks or bricks to hold seams in place until adhesive cures.
- Fold the unadhered remaining part of the base layer roll lengthwise and spread the adhesive over the subfloor using the square-notch trowel.
- Lay the other side of the material into the wet adhesive carefully, starting in the center and moving to the end of the roll.



8.
INSTALLING THE
BASE LAYER

(continued)

- Immediately roll the rubber flooring with a 100 lb. roller. Roll the width first, then the length. In 30-45 minutes, roll the flooring again. Use cement blocks or bricks to hold seams in place until the adhesive cures.
- Apply adhesive along and away from the edge of the first laid piece and position the second roll flush against the first. Do not place pressure on the first roll as the glue will still be wet and may shift the base layer roll. Verify there are no gaps between the rubber rolls and the seams are tight.
- Use masking tape to secure seams, applying tape strips across all seams onto adjoining rolls. (Do not use duct tape.)
- Continue to place the base layer material adjacent to the previous roll laid until the entire floor is covered. Immediately roll each sheet with a 100 lb. roller.
- Hand roll all seams after the floor has been rolled. If there is some gapping in the seams, use additional masking tape to pull the seams together. Once the floor has set, the tape may be removed.
- If adhesive pushes up in the seams, immediately clean with a rag dampened with denatured alcohol. Cured adhesive on the floor is very difficult to remove.

Note: DO NOT allow foot traffic or rolling loads on the newly installed floor for a minimum of 24 hours. Permanent indentations in the adhesive could result and prevent a secure bond to the subfloor. For maximum strength, allow adhesive to cure for 72 hours.

9.
PRIOR TO
INSTALLATION OF
SPORTFLOOR®
REACTION/PROXL
ROLL TOP LAYER

- Installation of the rolled rubber flooring will only be as good as the substrate it's installed over. If the substrate is uneven, the rubber will not lay flat.
- Before work commences, examine the areas to be covered and report any flaws or adverse conditions to the general contractor and/or architect. Do not proceed with installation of the top layer rolls until substrates and conditions comply with the requirements indicated in manufacturer's instructions.
- Roll out the rubber flooring and allow the material to "relax". The material should be acclimated to the installation room temperature for 24 hours.
- Pre-cut rubber rolls being sure to leave 1" to 2" of extra material at the beginning and end of the roll. This will allow for an exact fit against a wall or for seaming at each end. Trim rolls to fit upon adhering to the subfloor. When possible, any cuts should be against the wall.

10.
INSTALLING
SPORTFLOOR®
REACTION/PROXL
ROLL TOP LAYER

Room temperatures for installation must be maintained at a minimum 15°C (60°F) to a maximum 24°C (75°F) and a relative humidity 65% or less for at least 48 hours before installation. These conditions must be maintained 24 hours per day for the duration of the installation and for a minimum of 72 hours after installation is complete.

- The top layer should be laid in the direction 90° to the base layer.
- Locate the mid-point of the room and chalk a start line down the center of the room. Begin installation from the chalk line to the outside.
- All rolls should be unrolled and installed in the same direction to ensure consistent pattern repetition.
Note: Each roll has an arrow on the underside signifying the direction of manufacture. All rolls should be installed so that the arrows are pointing in the same direction.
- End seams should be staggered from those of adjoining rows.
- Always cut back each side of the roll minimum ¼" on a slight bevel to ensure a seamless fit.
- Dry lay the floor, then view the floor under normal, occupied lighting conditions.
Note: It is the installer's responsibility to inspect the dry laid installation and notify the appropriate authority of any imperfections or irregularities prior to final adhesive installation.
- All rolls must be glued down.
- Dry lay the first roll along the chalk line and make any required custom cuts to fit the floor.
- Beginning at the start chalk line, pull back half of the roll and spread **SportFloor® 2-part Urethane Adhesive** on the floor. Lay rolled material gently and carefully onto fresh adhesive, ensuring that it is correctly positioned to the start chalk line.
- Then pull back the other half of the roll, spread the adhesive, and re-lay this half onto fresh adhesive, ensuring that it remains straight and that no gaps or bubbles are present.
- Using a 100 lb. sectional roller, roll the flooring immediately in both directions after laying, to ensure proper transfer of adhesive. Repeat the rolling procedure again after 20-30 minutes.



10.
INSTALLING
SPORTFLOOR®
REACTION/PROXL
ROLL TOP LAYER

(continued)

- Repeat the dry lay and adhesive spread procedure for adjoining rows, beginning at the edge of the previously laid adjoining roll, ensuring that seams are straight and tightly closed with no gaps or peaks.
- To ensure a tight-fitting seam when butting one roll to another, overlap the seam by 1/8". Working from one end, work the overlapping roll down into the seam. If a gap appears, lift the roll and overlap the seam to before the gap and repeat the process. If rippling appears on the far side of the overlapping roll, remove this by stretching the material by a pulling or kicking motion.
- Always ensure a tight-fitting seam prior to applying adhesive.
Note: *Under no circumstances should a seam adhesive or heat gun be used on the seams.*
- All seams between adjoining rolls should be secured by using masking tape across the seam onto adjoining rolls. Typically, 300 mm (12 in) long at typical 400 mm (16 in) centers.
Note: *Never use duct tape or high grab masking tape. Duct tape adhesive chemically reacts with the flooring surface and leaves a permanent residue.*
- After rolls are properly laid and secured with tape, the edges and seams must be bricked (sufficiently weighted down with blocks) until adhesive is cured, to ensure proper bonding of flooring to sub-base.
- Suitable weight **must be** applied over every seam after taping and rolling is complete. Grey concrete utility bricks (2" x 4" x 8") are the only suitable weights. Place bricks, 2 layers deep, over all seams in continuous rows for a minimal period of 24 hours. **Note:** Lack of weight on seams can result in peaking. Never use wood, boxes, sandbags, cinder blocks or any other substitute materials. Installers are strongly encouraged to photograph the bricking process to document proper seam weighting. Photographic evidence will be required to support any future warranty claims related to seam performance.
- The weight blocks must be put directly onto the seam in a continuous row, with Kraft paper as a protector sheet between rubber floor and weight blocks.
- No wood or other material should be used under the weight blocks to attempt to transfer load.
- Cut rolls neatly around fixed objects, and to fit irregular and fill-in spaces using a sharp utility knife. Make repeated passes when cutting to ensure straight cuts.
- Flooring installed around any irregular or sloped surface (i.e., around drains), should be weighted with bricks to ensure proper bonding of flooring to adhesive.
- Any excess adhesive appearing on the top surface of the roll should be immediately wiped clean with a soft rag soaked in denatured alcohol.
Note: *Excess adhesive, which is allowed to harden on the top surface, is nearly impossible to remove without marring the SportFloor® ReAction/ProXL Roll finish.*



- Terminate flooring at centerline of door openings where adjacent floor finish or color is dissimilar.
- Install edge strips at unprotected or exposed edges where flooring terminates.
- Prevent foot traffic on flooring for minimum 24 hours after installation. If heavy equipment must be moved across the finished floor, use extra care to avoid damage to the flooring. Plywood or Masonite should be used as a protective layer over the flooring to avoid damaging the surface.

11.
CLEANING AND
MAINTENANCE

The SportFloor® ReAction/ProXL Elite System must not be cleaned with any petroleum-based cleaners. If any petroleum fuels are spilled on the rolled material, it should be removed immediately to avoid damage to the roll and voiding of warranty.

INITIAL CLEANING AFTER INSTALLATION

- Wait 48 hours (min) after installation before proceeding with floor maintenance.
- Sweep and vacuum floor to remove all loose dirt and debris.
- Apply approved floor cleaner diluted with clean water, as per manufacturer's instruction, using a mop. While still wet, scrub floor using a rotary buffing machine equipped with a medium Scotch Brite® pad.
- Work in small areas of floor at a time.
- After scrubbing, remove wet residue using a wet-dry vacuum.
- Damp mop floor with clean water to rinse and repeat wet-dry vacuum.
- Repeat cleaning as required to remove any remaining mold release or sediment.
- Prohibit foot traffic on flooring until area is dry.



11.
CLEANING AND
MAINTENANCE
(continued)

FLOOR CLEANING AND FLOOR FINISH

- Recommended cleaner is TASKI™ Profi® or a similar product.
- **SportFloor® ReAction/ProXL Elite System** does not require an applied finish, however, if a finish is desired, we suggest TASKI™ Wiwax® or a similar product.
- An applied finish may alter the surface characteristic of the floor.

REGULAR MAINTENANCE

- **SportFloor® ProXL / ReAction Elite System** may be cleaned at any time using a damp mop with a PH neutral cleaner diluted with water and follow immediately to extract any moisture.

MOVING MATERIALS ONTO FLOORING

- Caution should be taken in moving materials i.e., furniture, equipment, etc., over finished flooring. To avoid damage, Plywood or Masonite should be used as a protective layer over the flooring.

PRECAUTIONS

- **SportFloor® ProXL / ReAction Elite System** must not be cleaned with any petroleum-based cleaners. If any petroleum product is spilled on the matting, it should be removed immediately to avoid damage to the matting and voiding of warranty.

12.
DISCLAIMER

- This manual has been prepared to assist purchasers and installers of the **SportFloor® Elite System** Recreational Flooring in the recommended installation procedure. It is a guideline which may be used to produce an effective finished installation and should be reviewed in the context of the installation site(s).
- **North West Rubber Ltd.** does not warrant any installation work not directly performed by **North West Rubber Ltd.**, and specifically disclaims liability for any direct or indirect personal injury, property damage or other costs or losses resulting from installations or applications by third parties. Please see the **North West Rubber Ltd.**, Limited Warranty for the particulars of warranty coverage relating to **North West Rubber Ltd.**, products.
- **SportFloor® Elite System** is not to be used for any purpose other than resilient recreational flooring.
- **SportFloor® Elite System** must only be used in accordance with the manufacturer's published specifications.