

ReAction Roll Installation Manual

1. Introduction

SportFloor® ReAction Roll is manufactured in a dual layer format. The top layer consists of a colored virgin blend rubber calendered and vulcanized to a bottom layer of SBR recycled rubber. The slip-resistant, matte finish, top wear layer is very durable and provides a non-porous, safe, and resilient floor finish.

- ReAction roll is designed to be adhered to the sub-floor.
- Designed for use in gyms, hotels, arenas, schools, ski resorts, military bases, fitness centers, community centers or residential facilities.
- 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 prior to installation.

An authorized SportFloor® distributor shall be notified of any nonconformance before installation and final adhesive application.

ReAction Roll is designed for interior installations only and is not recommended for environments where the product will be exposed to oils or petroleum based materials.

2. Quality Assurance

Floor 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 acclimatize 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 Roll**
- Adhesive – only use **SportFloor® 1 or 2-part Urethane Adhesive**, solvent-free
- Tools:
 - Sharp utility knife & spare blades
 - Carpenter square & straight edge
 - Measuring tape
 - Chalk line (for layout)
 - Markers (to indicate cut lines)
 - Rubber 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 (75 lbs) minimum sectional roller
 - 50mm (2") masking tape (to secure seams)
 - Concrete blocks 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 sub floor it is laid upon. This is especially true when the flooring is glued down. Rough and uneven sub floors can diminish the appearance, cause uneven top surfaces and shorten the life span of such flooring. We therefore recommend proper preparation of such sub-floors as follows:

Existing Flooring

- Do not install ReAction Roll over existing flooring.

Wood Floors

- New wood sub-floors should be CDX exterior plywood installed smooth side up.
- All nails, staples or screw fasteners must be caulked and surface sealed with epoxy sealant.
- Plywood should be acclimatized for a 48-hour period prior to installation of rolled flooring.
- All wood sub-floors 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 (such as Mapei Planipatch, etc) to manufacturers' standards.

Concrete Floors

- Ensure sub-floor 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.

It is vital that a moisture test be completed prior to floor installation. Moisture is the single most significant factor that causes bonding failure to the sub-floor. Moisture tests must be taken on all concrete floors regardless of age and grade level.

- Test shall be in accordance with **ASTM F-1869** Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Sub-floor Using Anhydrous Calcium Chloride.
- One test should be conducted for every 92.9 m² (1000 sqft) of flooring and the results not exceed 2.27 kg per 92.9 m² (5 lbs per 1000 sqft) in 24 hours.
- Use **ASTM F2170**, the Relative-Humidity Test, as an alternate. Slab not to exceed 75% humidity.
- If test results exceed limitations or hydrostatic pressure exists, the installation must not proceed until the problem has been corrected or an approved vapor barrier underlayment is installed.
- All test results must be kept on file and be accessible upon request.
 - If lightweight concrete has been used in construction **DO NOT** use the F1869 test.
 - If poured-gypsum underlayment has been used, check with the underlayment manufacturer on how to test for dryness. Never use calcium chloride testing with gypsum underlayment.
 - 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.
 - Repair any low spots with a cementitious based latex 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 treated 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 ReAction Roll



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.

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

7. Installing ReAction Roll

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 rolls until substrates and conditions comply with the requirements indicated in manufacturer's instructions.

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.

- 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 cutback 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.

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 adhesive on the floor. Lay rolled material back 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.
- Rolls should be laid in small sections and rolled with a sectional roller in both directions within 15 minutes to ensure proper transfer of adhesive.
- 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.

- **Grey concrete utility bricks, 2" x 4" x 8" are the only suitable weights to be used**
- 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 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.

8. Cleaning and Maintenance

ReAction Roll 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.

Floor Cleaning and Floor Finish

- Recommended cleaner is TASKI™ Profi® or a similar product.
- **ReAction Roll** 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

- **ReAction Roll** 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:

- **ReAction Roll** 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.

9. Disclaimer

- This manual has been prepared to assist purchasers and installers of *SportFloor ReAction Roll* 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 ReAction Roll** is not to be used for any purpose other than resilient recreational flooring.
- **SportFloor ReAction Roll** must only be used in accordance with the manufacturer's published specifications.