

INSTALLATION Instructions for BounceBack[®] (rubber tiles)

UPON DELIVERY OF PRODUCT

1. **VERIFY** packing slip matches with product and order.
2. **INSPECT** delivered product thoroughly. Report any discrepancies of original order, product defects, etc. No reimbursement/warranty claim will be given for labor on material installed with visual defects. Any defects – size, color, or otherwise – must be reported to the place of purchase prior to installation.
3. **STORE** product and adhesives in clean, dry, ambient temperature environment.
4. **READ** product and sub surface floor preparation, instructions, warranty and other disclaimers carefully and completely before beginning any installations.

Warning:

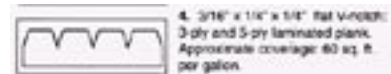
DO NOT use recycled rubber products in conjunction with any petroleum based products. This includes solvents, adhesives or sealants. All substrates (especially new concrete) must be fully cured for a minimum of 28 days prior to installing rubber products.

RECOMMENDED TOOLS

Measuring Tape or Ruler
Metal Straight Edge
RB Knife or Non-Retractable
Utility Knife w/ Extra Blades
Jig Saw
White Marker or Chalk
Chalkline
2x4 Wood Block
Cellophane, Masking or Packaging Tape
Mallet

Adhesive Options

- CX-941 Polyurethane Adhesive
Mineral Spirits and Rag
Rubber Gloves
“V” Notched Trowel 3/16”x1/4”x1/4”



- CX-948 Seam Sealant
Commercial Grade Caulking Gun

ADHESIVE

Protect unopened containers from heat and direct sunshine. In cool weather, store containers at room temperature for at least 24 hours before using. Adhesive CX-941 has a shelf life of one year when stored at 75°F and 50% relative humidity. Apply CX-941 in temperatures above 40°F.

- Wear gloves during application; CX-941 is difficult to remove from skin and clothing; if adhesive gets on skin, immediately wipe it off with a dry cloth.
- Do not apply on frozen surfaces or standing water.
- Avoid contact with water or alcohol before use and before complete cure.
- Do not use in areas subject to hydrostatic head pressure.
- Do not use on wet, contaminated, or friable substrates.

CLEANING

Indoors, sweep, sponge mop or vacuum rubber flooring for everyday maintenance. Outdoors, a water hose, leaf blower or broom is usually sufficient.

Use RB Cleaner/Deodorizer, disinfectant or a mild detergent with a sponge mop and water for more extensive cleaning.



OPTIONAL SEAM SEALING

RB offers CX-948 adhesive for creating the performance of a one-piece floor. CX-948 acts as a bonding agent that will waterproof flooring seams, and will be as flexible as the rubber it bonds.

CX-948 is available in a 10 oz gun-grade form. To bond the rubber together it is necessary to leave a 1/4" gap between seams for adequate adhesive to penetrate adjacent pieces. Application must be allowed to cure for 48 hours prior to use.

PREPARATION

Product

Bounce Back should be protected from weather and other damage prior to application, during application and while curing. Rain and/or sprinkling should be avoided during and for 12 hours after installation.

Sub-Surface

Requirements for all Sub surface are as follows:

1. All play structures should be in place prior to BOUNCE BACK installation.
2. Structurally sound and fully cured a minimum of 28 days (concrete or asphalt)
3. Have good drainage with a gradient (2% is suggested) that prevents the pooling of water.
4. Be reasonably flat and free of holes or variances of more than 1/8" in 10 feet.

Concrete & Asphalt

1. New concrete must be allowed to cure thoroughly prior to installation. If sealants are used, **DO NOT** use one with a petroleum base.
2. Old concrete must be repaired and have joint sealants and fillers installed as necessary. All cracks or flaws should be filled in or repaired prior to covering with rubber products. Use patching materials as appropriate. *(Mechanical surface profiling is the preferred floor preparation method. It is the only acceptable preparation method where warranties are issued (with CX-941 adhesive). Acid etching is not recommended. Mechanically profile the floor to medium-grit sandpaper texture. Remove curing and parting compounds and other surface hardeners and floor coatings in accordance with the manufacturers instructions.)*
3. Surface must be thoroughly cleaned of dirt, dust, grease, or other foreign matter by shotblasting or other mechanical means with a commercial degreaser. Any bumps or debris will cause excess wear and/or cushion damage.
4. Allow the surface to completely dry. Moisture trapped under the rubber may counteract the adhesive (if used) if not allowed to dissipate entirely.
5. Asphalt may require a re-surface coating for best results. Due to variations in asphalt substrates, it is the user's responsibility to check the adhesion of the cured adhesive on typical test areas at the project before application.

Compacted Surfaces

1. Subsoil (existing dirt) layers must be free from large rocks and any organic material such as leaves, peat, wood or other materials which could decompose over time, potentially causing settling of the matting surface.
2. Subsoil should be flat and level. Compaction of the subsoil with a compactor or roller may be required where subsoil is unusually soft or loose.
3. Install the first layer of 5/8" minus or 3/4" minus crushed rock, approximately 2" thick, and compact the material using a plate compactor to a 95% compacted rate, sprinkling water as necessary to get the crushed rock material to compact tightly. Surface should be hard and flat after compaction. A slope of up to 2% may be desired for drainage. Verify that this slope will not effect the heights of critical play equipment components, like slide exits.
4. Repeat the rock installation and compaction so that the crushed rock base is 3"-4" thick after compaction. Additional layers may be required over unusually soft or unstable subsoil materials.
Be sure that the final layer produces a smooth surface without bumps or depressions more than 3/16" in size. (Any imperfections will telegraph through your Bounce Back tiles, and will become noticeable in the final installation.)
5. Roll out a layer of RB/Felt or similar geo-textile fabric, and overlap seams by 3" or more. Glue the layers together with the adhesive provided. Keep the felt layers flat by temporarily staking the fabric at both ends.
6. Install the Bounce Back tiles to the fabric, as you would install to a hard surface and tile to tile. Be careful not to bunch up or wrinkle the fabric during the installation process.
7. Trim any excess fabric, or bury the edges of the fabric beneath the subsoil.

INSTALLATION

1) Assume that the fences, walls or curbs that the tiles may butt up against are not perfectly straight and will most likely require cutting for a tight fit. Begin by determining the absolute center of the area to be installed. Determine the horizontal center. Snap a chalk line. Determine the vertical center. Snap a Chalk line. (Figure 1) This will become the starting point.

2) Chalk line perpendicular a grid at 24" intervals, both horizontal and vertical for a checkerboard pattern (Figure 2). For the most secure installation, use a "Brick Pattern" installation with full floor and tile-to-tile adhesive.

a) Using Full Floor Adhesive CX-941

Apply CX-941 Adhesive¹ prior to laying each tile and apply only within the area of the tile (or tiles) to be laid down. The adhesive should be applied thinly and evenly over the substrate with 3/16" x 1/4" x 1/4" "V" trowel. After placing each tile, press firmly throughout the tile to remove bubbles and establish bond.

CX-941 adhesive will cover approximately 50 square feet per gallon. Do not apply more adhesive than can be utilized within a 30 minute window. In ideal temperatures there is approximately 30 minutes of open time to apply the adhesive and maneuver the rubber tile onto the adhesive and position prior to curing onset. Wipe off excess adhesive on product or on hands with mineral spirits. Gloves are strongly suggested during application, as CX-941 is aggressive on skin.

b) Using Tile-to-Tile Adhesive CX-948

Apply a 1/4" wide bead of CX-948 adhesive 9" in each direction from the corners, just below the radius edge. This will provide 6" of unattached edge for greater water permeability. (Figure 3).

NOTE: It is strongly recommended to use both methods of adhesion when installing product over RB Felt or Geotextile sub-surface. Using both of the abovementioned adhesive procedures will ensure the most long-term, trouble-free installation of your Bounce Back product.

3) Place the first tile in the joint of the two chalk lines (Figure 2). Maneuver the rubber sheet to lay precisely aligned within the two chalk lines by tapping with a mallet and wood block.

4) Place the next tile at one end of the original tile. Use mallet and wood block to gently tap into place, match with adjacent tile, and align with chalk gridlines. The cushion's rubber content provides elasticity that provides fall protection. This same elasticity creates some variance in exact size, tile to tile. Attention must be given to keeping a straight line at the tile joints.

5) Continue this method to the wall or stopping point in that direction. Resume laying floor on the opposite side of the original tile and continue installation to the outside of the fall area or stopping point in that direction. (Figure 4) If the rubber exceeds the allotted space, use a straight edge and non-retractable utility knife to trim the excess length. (see cutting tips).

6) Begin laying the next row at one end of the room (Figure 4), adjacent to the first row, by applying adhesive first and then placing the tiles, fine tuning placement with 2x4 mallet. To achieve the recommended "brick" pattern, it may be necessary to cut the first and last tiles (see cutting tips).

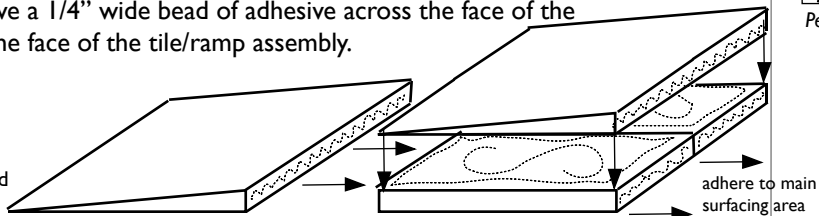
ADHESIVE CLEAN UP TIPS: Before troweling with CX-941, cover the unused portions of the trowel with duct tape. After troweling, tear off the tape before the material cures. Clean all tools and excess CX-941 immediately after use with mineral spirits. Use proper precautions when handling solvents. Cured adhesive can be removed by cutting with a mechanical tool.

ADA RAMP KIT INSTRUCTIONS (for 7-9' and 10-12' Fall Heights)

1) Ensuring that you have a level, sound surface, lay two tiles down side by side so they combine to make a 24" wide surface. Glue the meeting edge with a 1/4" wide bead of CX-948.

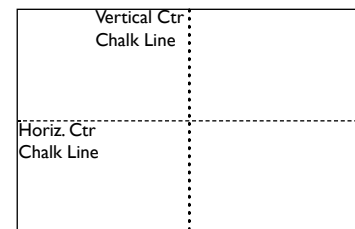
2) The ramp included in your kit that perfectly covers the two tiles will be installed next using a wavy or "S" pattern. With the CX-948, place a 1/4" wide bead on the two tiles and around the perimeter approximately 1/4" in from the outside edge (adhesive is depicted in the diagram below by dotted lines) Then place the matching ramp on top of the tiles.

3) The remaining ramp should have a 1/4" wide bead of adhesive across the face of the thick side and butted against the face of the tile/ramp assembly.



¹ The instructions provided are assuming use of RB Rubber's CX-941 and CX-948 Polyurethane Adhesives. If another adhesive product is used, be cautious as to the manufacturer's instructions, curing times, and bonding window.

Figure 1

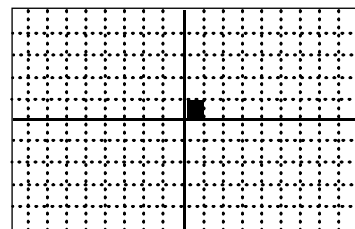


CX-941 Speed Set Method

After applying adhesive, **lightly** water mist surface of applied adhesive with a garden pump or hand sprayer.

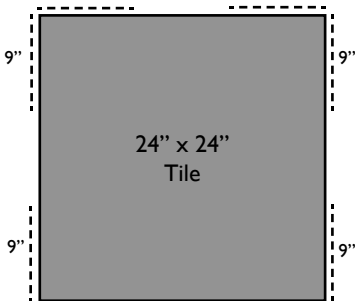
This process reduces the time window for curing onset to 20 minutes. It also allows foot traffic within 3 hours of installation.

Figure 2



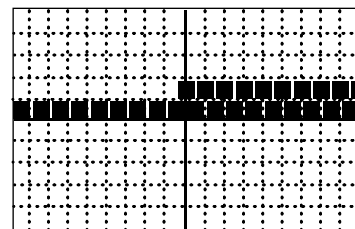
Perpendicular Grid with 1st Tile placement

Figure 3



Tile to Tile CX-948 Placement
1/4" wide bead 9" in from all 4 edges.

Figure 4



Perpendicular Grid with 1st Row placement and 2nd row beginning brick pattern.

PRODUCT WARRANTY

- 1.0 RB Rubber Products, Inc. Bounce Back playground surfaces are warranted from material defects for five (5) years from the date of purchase when installed according to RB Rubber Products, Inc. installation specifications and when used for the purpose for which RB Rubber Products, Inc. intended.

Should defects in material or workmanship be found, it is the owner's responsibility to contact RB Rubber, through the point of purchase or directly, within the allotted warranty period to resolve the situation. This warranty does not cover dissatisfaction or problems due to:

- a) improper installations and/or improper maintenance
- b) fading due to sunlight
- c) shading (color variation) of individual pieces due to natural rubber variations
- d) use of harsh and acidic chemicals, acidic foods and abrasive chemicals
- e) water spotting, harsh chemicals, petroleum adhesives or floor sealants or abuse
- f) color variation between samples and/or printed illustrations and actual product.
- g) wear or product degradation expected from the use or environment of installation.

- 1.1 The warranty is limited to the repair or replacement of products of RB Rubber Products, Inc. which are shown to be defective. The owner/end-user agrees not to advance any claim for any other measure of damage or loss. RB Rubber Products, Inc. shall not be liable for installation, disassembly, removal, disposal, return shipping, or other similar costs.
- 2.2 The warranty does not cover damage to the materials or installation during or after delivery due to: (a) exposure to chlorine, solvents, acids, or other harmful chemicals; (b) acts of negligence, misuse, or willful or accidental external influences including, but not limited to, vandalism, riot, or acts of war. Outdoor exposure, abrasions, and ultra-violet rays may cause normal change in the surface color, which is not covered as a defect under this warranty.
- 2.3 RB Rubber Products, Inc. shall not be liable for any damage, loss or claim whatsoever unless:
- 2.3.1 The manufacturer is notified in writing within fifteen (15) days of any occurrence which might give rise to a claim;
 - 2.3.2 The owner/end-user has obtained written authorization from RB Rubber Products, Inc. prior to making any repairs or alterations on or through the surface which may affect the integrity of the materials;
 - 2.3.3 RB Rubber Products, Inc. is first permitted to inspect the allegedly defective product or cause of the alleged loss, damage or claim;
 - 2.3.4 The material is installed according to the written instructions provided by RB Rubber Products, and used only as intended by RB Rubber Products.
- 1.4 If, after inspection, RB Rubber Products, Inc. determines that there has been a material defect in the product within the five-year period described in Paragraph 1.0, the liability of RB Rubber Products, Inc. and the remedy of the owner/end-user shall be limited, at the sole option of RB Rubber Products, Inc., to either: (a) delivery of repair or replacement material for the impacted area, or (b) credit to be applied towards the purchase of new material. The value of either remedy shall be pro-rated upon the remaining months of unexpired warranty as determined by the manufacturer. The maximum pro-rated value of either remedy shall in no case exceed the original purchase price.

Disclaimer:

1. THERE IS NO WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, NOR ANY OTHER WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF.
2. RB RUBBER PRODUCTS, INC. SHALL NOT BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL OR OTHER DAMAGES.
3. THE REMEDIES STATED HEREIN ARE THE SOLE AND EXCLUSIVE REMEDIES FOR ANY CLAIM OR DAMAGES.
4. NO AGENT OR REPRESENTATIVE OF RB RUBBER PRODUCTS, INC. HAS ANY EXPRESS OR IMPLIED AUTHORITY TO MAKE ANY REPRESENTATION, PROMISE OR GUARANTEE NOT STATED HEREIN.

Notice:

Recycled rubber, as with any recycled product, can vary. Tolerances in thickness and width have been honed as tight as is possible, but some variance is to be expected. Rubber's nature is to expand and contract with changes in temperature and humidity.

RB Rubber Products, Inc.

800-525-5530 503-472-4691 503-434-4455 fax
www.rbrubber.com sales@rbrubber.com



CUTTING TIPS

Tips on cutting rubber tiles. This procedure works best when using the recommended RB Knife, but will also work with a non-retractable utility knife. When using a utility knife, be sure to keep the blades sharp to aid in the cut, and help reduce the possibility of injury due to dull blades.



1. Mark the tiles you will need to cut with chalk or a chalk line.
2. Put your straight edge on the corresponding marks you have placed on the tiles.
3. Holding the straight edge firmly in place, score the tiles two or three times**
4. Grab the tile close to the score line, lift and bend the tile toward you. The score line will "break open".
5. Make several more passes with the knife, working down the established cut, until the cut is complete.

**This process may be made easier by cutting the tile upside down on a raised surface such as the 2x4 wood block used during installation. Gravity will depress the cut edge down and away from the cut, and will be less likely to catch the knife blade.

A jigsaw is also an effective tool to make circular cuts around poles, posts, etc.

- 1) Draw a circle on the tile using chalk for the desired diameter. (If there are several cuts of the same nature, create a pattern out of cardboard.)
- 2) Begin the cut at the edge of the tile closest to the drawn circle, cut straight line to circle. Cut around drawn pattern. Push out unwanted piece(s).

CURING TIMES

CX-941 Adhesive Standard Set:

Firm Set	1-2 Hours.
Light Traffic:	8-10 hours.
Normal Traffic:	24 hours.

CX-941 Adhesive Fast Set:

Foot Traffic	3 hours
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Non-Adhesive:

Not Recommended

CX-948 Seam Sealant

Foot Traffic	48 Hours
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