



Installation Instructions for Greatmats Rolled Rubber

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, environment with temperatures between 70° and 95° F.
4. **READ** product and sub-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 45 to 60 days prior to installing rubber products. Please ask your sales representative for recommended cleaning agents.

INTRODUCTORY NOTE: This installation guide is intended to provide the necessary information for the proper installation of Greatmats Rolled Rubber. These instructions are believed to be based on accepted industry standards and are provided for informational use only. **GREATMATS DOES NOT WARRANT ANY INSTALLATION PERFORMED PURSUANT TO THESE INSTRUCTIONS OR OTHERWISE AND SPECIFICALLY DISCLAIMS LIABILITY FOR ANY DIRECT OR INDIRECT PERSONAL INJURY, PROPERTY DAMAGE OR OTHER COSTS OR LOSSES RESULTING FROM INSTALLATION.**

Greatmats Rolled Rubber should be installed by qualified and experienced personnel.

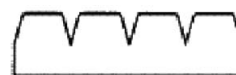
RECOMMENDED TOOLS

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

Adhesive Options

* DSPS - 5" Quality Double Sided Carpet Tape

* CX-941 Polyurethane Adhesive
Mineral Spirits and Rag
Rubber Gloves
1, 50-100# Linoleum Roller
"V" Notched Trowel



1/8" x 1/8" x 1/8" or
1/16" x 1/16" x 1/16" flat V-
notch;
3-ply and 5-ply laminated
plank.
Coverage: 80-90 sq. ft. per gal.

* CX-22 or SikaFlex Seam Sealant
Commercial Grade Caulking Gun

ADHESIVE

Protect unopened containers from heat and direct sunshine. In cool weather, store containers in temperatures of 70° to 95°F for at least 24 hours before using. Adhesive CX- 941 has a shelf life of one year when stored at this temperature range. 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.
- * It is the user's responsibility to check the adhesion of the cured adhesive on typical test areas at the project BEFORE application.

OPTIONAL SEAM SEALING

Greatmats offers CX-22 and SikaFlex Sealant/ Adhesive for creating the performance of a one-piece floor. Both act as a bonding agent that will waterproof flooring seams, and will be as flexible as the rubber it bonds.

Both CX-22 and SikaFlex are available in a 10 oz gun-grade form. To bond the rubber together, leave 1/8" gap between seams for adequate adhesive to penetrate adjacent pieces. To seal seams for waterproofing, sealant should be applied post-installation and applied thinly only to the seams. Either application must be allowed to cure for 48 hours prior to use.

To assure a strong bond, it is strongly recommended to thoroughly clean the edges of the mats by steam cleaning with a mild dish detergent or wiping with a denatured alcohol. Allow the mats to completely dry prior to applying sealant.

- * When sealing colored rubber, use Greatmats Sikaflex 221 for best bond.

PREPARATION

Product

Greatmats rolled rubber products must reach room temperature to ensure a secure, tight installation with minimal size fluctuation. Each piece should be completely unrolled and allowed to set for a full 24 hours prior to beginning installation. This allows the product to relax from being rolled and to size-stabilize at the typical room temperature. Inspect the product prior to installation for measurable defects or variations.

Sub-Surface

For best installation, any sub-surface should be reasonably flat and free of holes or variances of more than 1/8".

1. All sub-surfaces should be structurally sound and fully cured for 45 to 60 days. Test floor for vapor drive in accordance with anhydrous calcium chloride test. Vapor drive should not exceed the industry standard of <3.0 lbs. per 1,000 square feet in 24 hours.
2. Repair concrete and install joint sealants and fillers as necessary.
3. Mechanical surface profiling is the preferred floor preparation method. It is the only acceptable preparation method where warranties are issued. 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 manufacturer's instructions.
4. It is recommended to test the sub-straight to give ratio by trowling a small area w/adhesive roll and let dry. Then remove (pull-up) to check transference of glue to sub-straight test area. You should have a 85% to 95% transfer in your test area. Adjust trowel, by tilting the edge 30% to 45%, to increase or decrease amount of glue applied.

A. Concrete

New concrete must be allowed to cure thoroughly prior to installation (45 to 60 days). If sealants are used, **DO NOT** use one with a petroleum base. 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.

Surface must be thoroughly cleaned of dirt, dust, grease, or other foreign matter by shot blasting or other mechanical means with a commercial degreaser and allowed to dry completely before beginning installation.

B. Wood Base

Wood surfaces should be completely cleaned of dirt, dust, grease or other foreign matter and be completely dry prior to installation. Trapped moisture may rot the wood or interfere with installation adhesives.

Nails or other protrusions should be pounded down or removed, holes repaired, and surface variances repaired within the 1/8" acceptable variance level.

C. Asphalt

Asphalt requires the same preparation as concrete. However, 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.

D. Over Rock Base

Begin preparing the surface 2-3" below the level of the finished floor. Fill prepared area with 3/4" minus crushed gravel, decomposed granite or limestone product. Tamp fill down to 2-3" thickness, so that it is near level with the area of installation, minus the thickness of the rubber surfacing.

A border should be installed to further house the surfacing once installed.

This can be a concrete curb, wood, or other permanent or semi-permanent board product. If a border is not an option, sealing/ bonding the seams together is recommended with the CX-22 or SikaFlex adhesives using the instructions listed.

CLEANING

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

Use Cleanvia CV1000 Cleaner/Deodorizer, or a mild detergent with a sponge mop and water for more extensive cleaning.

Please ask your sales representative for recommended cleaning agents.

DO NOT USE Petroleum Based Products To Clean Rubber.

INSTALLATION

Indoors

1) **Greatmats Rolled Rubber should be installed by a trained professional flooring installer with experience installing rubber flooring.** Assume that the walls, and/or curbs the rolls are abutting are not perfectly straight or square. Begin by determining the vertical center of the area to be installed. Snap a chalk line. Snap two additional chalk lines 24" out from either side of the original chalk line (Figure 1). This is the guideline for the edges on the first 48" roll. (If the roll to be installed is of another width, divide the width in half and measure that distance out from the original chalk line to determine the first rolls' guides) **Insure that the flooring is layed so that any roll curl is facing down. This will prevent the ends from curling up.**

2) Placing the roll end against the wall, unroll the first piece over the prepared area. Maneuver the rubber to lay precisely within the two chalk lines by tapping with a mallet and wood block. If the length of the rubber roll exceeds the length of the floor, use a straight edge and non-retractable utility knife to trim the excess length, **leaving an extra inch for the final cut (see cutting tips).**

3) Repeat steps above for remaining rolls. For subsequent roll placement, chalk lines can be used to define the areas of installation, but is not as crucial as with the initial piece (Figure 3). See curing times on the back page for traffic acceptability.

4) To insure a tight fitting seam when butting one roll up 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 pulling or a kicking motion. **Always insure a tight fitting seam prior to applying adhesive. Prior to curing the adhesive will not have sufficient grab to fix a misaligned seam. Never apply tape to the surface of the flooring as it may leave a residue on the surface when removed.**

5) After the entire room has been laid out and allowed to fully acclimate to the room and floor temperature, trim the roll lengths as required for a perfect fit. Beginning with a roll aligned along a front edge or wall, pull the roll back one half of the length. Apply adhesive or tape as describe below. Lay the flooring back down being careful not to allow air pockets. Repeat

Figure 1

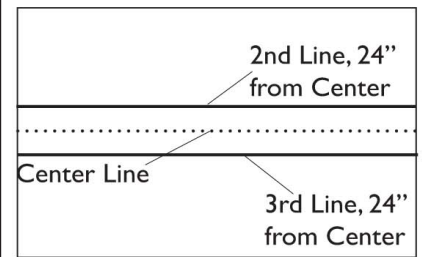


Figure 2

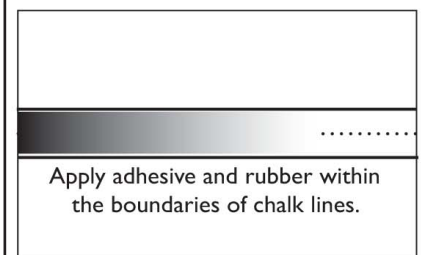


Figure 3

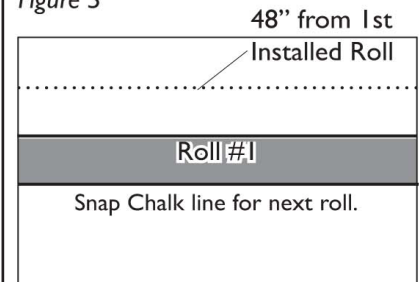
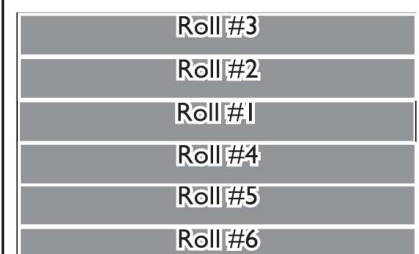


Figure 4



Sample of finished floor layout.

the process for the other half of the first roll and moving on to the adjacent rolls. When laying the other rolls be sure to overlap the seams by 1/8" and force the overlap into the seam. **Be very careful to not allow the portion of the roll that is overlapping to touch the adhesive first.** Thoroughly roll the flooring with a 50-100 lb carpet roller to assure bonding of the rubber to the adhesive. *Be careful not to shift the roll while rolling.* Rolling should be done again at 30 and at 60 minutes after the initial placement of the roll onto the adhesive. Rolling should be done both widthwise and lengthwise. This will ensure maximum contact and ultimate bond.

a. If Adhesives are Needed: *

The adhesive should be applied thinly and evenly with a 3/16" x 1/4" x 1/4" "V" trowel. (CX-941 adhesive will cover 50 to 60 sq. ft. per gallon). Follow immediately with rolled rubber material. Gloves are strongly suggested during application, as the CX-941 adhesive will adhere to the skin and once dried is difficult to remove. DO NOT allow mineral spirits to come in contact with the rubber rolls.

b. Using Double-Sided Carpet Tape:

Apply the double sided quality carpet tape on the floor. Remove release tape and ease rubber back down into place. Do not allow to "flop" onto the tape, as it may create air pockets. Press to adhere. Continue this process for the remainder of the floor.

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. DO NOT allow mineral spirits to come in contact with the rubber rolls.

Outdoors

Outdoor installations typically require complete adhesion for maximum floor strength. Use the same procedures as in the indoor installation, using the CX-941 adhesive process. Using CX-22 or SikaFlex sealant will also add strength and immobility to the floor (if using seam sealant, leave 1/8" gap between rolls). Take note of the outdoor temperature when using adhesive, as it will affect the curing time. In some areas, evening or night installations are best due to extreme heat. Colored product installed outdoors will be subjected to harsh UV rays, and as such may discolor.

*The instructions provided are assuming use of Greatmats CX-941 Polyurethane Adhesives.

If another adhesive product is used, be cautious as to the manufacturers instructions, curing time's and bonding window.

PRODUCT WARRANTY

1.0 Greatmats rolled rubber products are guaranteed to be free of manufacturing defects in material and workmanship for 5 years ("Warranty Period"). If there are defects in material and workmanship during the Warranty Period, Greatmats will replace or repair the mats, as described herein, at no cost to the owner/end-user. Should defects in material or workmanship be found, it is the owner's responsibility to contact Greatmats through the point of purchase or directly, as described below. This warranty does not cover dissatisfaction or problems or other damage to the materials due to or as a result of:

- a) improper installations and/or improper maintenance;
- b) fading due to sunlight (Outdoor exposure, abrasions, and ultra-violet rays may cause normal change in the surface color and is not considered

CUTTING TIPS

Tips on cutting sheet rubber follows. This procedure works best when using a 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 mats 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 mats.
3. Holding the straight edge firmly in place, score the mats two or three times**
4. Grab the mat close to the score line, lift and bend the mat 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 mat on a raised surface such as the 2x4 wood block used during

- a defect under this warranty);
- 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, 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;
- h) chewing, clawing or other animal destruction;
- i) exposure to chlorine, solvents, acids, or other harmful chemicals; or
- j) acts of negligence, misuse, or willful or accidental external influences including, but not limited to, vandalism, riot, or acts of war.

***** Proof of Purchase is Required *****

1.1 The warranty is limited to the repair or replacement of products of Greatmats which are shown to be defective. The owner/end-user agrees not to advance any claim for any other measure of damage or loss. Greatmats shall not be liable for installation, disassembly, removal, disposal, return shipping, or other similar costs.

1.2 Greatmats shall not be liable for any damage, loss or claim whatsoever unless:

1.2.1 The manufacturer is notified in writing within fifteen (15) days of any occurrence which might give rise to a claim;

1.2.2 The owner/end-user has obtained written authorization from Greatmats prior to making any repairs or alterations on or through the surface which may affect the integrity of the materials;

1.2.3 Greatmats is first permitted to inspect the allegedly defective product or cause of the alleged loss, damage or claim;

1.2.4 The material is installed according to the written instructions provided by Greatmats and used only as intended by Greatmats.

1.3 If, after inspection, Greatmats determines that there has been a material defect in the product within the Warranty Period described in Paragraph 1.0, the liability of Greatmats and the remedy of the owner/end-user shall be limited, at the sole option of Greatmats 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 prorated 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.

Limitation of Warranty:

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 HERE OF.
2. GREATMATS 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 GREATMATS HAS ANY EXPRESS OR IMPLIED AUTHORITY TO MAKE ANY REPRESENTATION, PROMISE OR GUARANTEE NOTSTATED HERE IN.

Disclaimer:

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

*** Greatmats rolled rubber product is not to be used in any manner or for any purpose not expressly identified by Greatmats**

CURING TIMES

Indoors:

CX-941 Adhesive Standard Set:

Firm Set: 1-2 Hours.

Light Traffic: 8-10 Hours.

Normal Traffic: 24 hours.

Double Sided Carpet

Tape:

Foot Traffic: Immediate

Non-Adhesive:

Normal Traffic: Immediate

Outdoors:

Normal Traffic: 24 Hours

Indoors or Outdoors:

CX-22 Seam Sealant:

Foot Traffic: 48 Hours