

HEARTLAND RUBBER

INSTALLATION PROCEDURES FOR RUBBER FLOORING

Installation of rubber flooring will only be as good as the sub-base. Please review the following suggestions. Installation of rubber flooring should not begin until all other installations have been finished. Floor should be maintained at a minimum temperature of 65 degrees for 48 hours before, during and after installation.

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 70-95F.
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 Halehanem Goods. These instructions are believed to be based on accepted industry standards and are provided for informational use only. Halehanem 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. Halehanem Goods should be installed by qualified and experienced personnel

RECOMMENDED TOOLS

Measuring Tape or Ruler
Metal Straight Edge

Knife or Non-Retractable Utility Knife with Extra Blades
White Marker or Chalk
Chalk line
2x4 Wood Block
Cellophane, Masking or Packaging Tape Mallet

Adhesive:

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.

Protect unopened containers from heat and direct sunshine. In cool weather, store containers in temperatures of 70-95F 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 40F.

- Wear gloves during application; CX-941 is difficult to remove from skin and clothing. If adhesive gets in 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.

PREPARATION

All sub-floors should be thoroughly cleaned, filled and primed. Remove paint, varnish, oil, grease, and wax. On wood floors, use a chemical paint or varnish remover. On concrete use a solution of Trisodium Phosphate (or Xylol for rubber based paint). For oil, grease or wax, scrub with Trisodium Phosphate or machine sand. IN all cases, complete with thorough washing and rinsing. Before installing any material, be sure that the area that is being installed is completely dry. Concrete floors must be made even with latex floor fill. Fill cracks with latex crack filler. If floor is new, be sure it is completely dry & sweep area clean.

In wood floors, fill cracks with plastic wood, sand uneven boards, re-nail loose boards, or replace where necessary, and prime with floor size. If needed, floor may

be covered with 5-ply 5/8" plywood or hardboard or plywood, and primed with floor size.

MOISTURE TESTING:

Industry standards for moisture emission testing must be followed. Although CX-990/CX941 is waterproof when cured, wood and concrete flooring can be sensitive to excessive moisture. Concrete subfloors must be tested and conform to industry standard subfloor moisture parameters showing less than 3.0 lbs/1000 sq. ft/24 hours using a Calcium Chloride Moisture test, according to ASTM F-1869.

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 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.

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.

ASPHALT

Asphalt requires the same preparations 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.

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 one installed. This can be a concrete curb, wood, or other permanent or semi-permanent board product.

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.

****Please do not use petroleum based products to clean rubber.**

INSTALLATION

INDOORS

Halehanem Goods should be installed by a trained professional flooring installer with experience installing rubber flooring. Leave gap for expansion joint. 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 the chalk line. Snap two additional chalk lines 24" out from either side of the original chalk line. This is the guideline for the edges on the first 48" roll. **Insure that the flooring is placed so that any roll curl is facing down. This will prevent the ends from curing up.**

Placing the roll end against the wall, unroll the first piece over the prepared area. Maneuver the rubber to lie 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.**

Repeat steps above for remaining rolls. See curing times on back page for traffic acceptability.

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.**

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. Lay the flooring back down being careful to not allow air pockets. Repeat the process for the other half of the first roll and moving on to the other 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.

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 50-60 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.

Adhesive Clean up Tips: Before you trowel with CX-941, cover the unused portions of the trowel with duct tape. After you are finished, 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 adhesives can be removed by cutting with a mechanical tool. DO NOT allow mineral spirits to come in contact with rubber rolls.

INSTALLATION

OUTDOORS

Outdoor installations typically require complete adhesion for maximum floor strength. Use the same procedures as the indoor installation, using the CX-941 adhesive process. 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 Halehanem CX-941 Polyurethane Adhesives. If another adhesive product is used, be cautious as to the manufacturer's instructions, curing times, and bonding window.

CUTTING TIPS

Tips on cutting sheet rubber: Mark the mats you will need to cut with chalk or a chalk line. Put your straight edge on the corresponding marks you have placed on the mats. Holding the straight edge firmly in place, score the mats two or three times**. Grab the mat close to the score line, lift and bend the mat toward you. The score line will "break open". Make several more passes with the knife, working down the established cut, until the cut is complete.

**This process may be easier by cutting the mat on a raised surface such as the 2x4 block used during

CURING TIMES**Indoors**

CX-941 Adhesive Standard Set:

Firm Set	1-2 Hours
Light Traffic	8-10 Hours
Heavy Traffic	24 Hours

Non-Adhesive

Normal Traffic	Immediate
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Outdoors

Normal Traffic	Immediate
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