



Specialty Flooring Solutions

DuraRUBBER®

Vulcanized Sheets

Installation Instructions

UPON DELIVERY OF PRODUCT

- VERIFY** packing slip matches with product and order.
- INSPECT** delivered product thoroughly. Report any discrepancies of original order, product defects, etc. No reimbursement/ warranty claim will be given for labor or material installed with visual defects. Any defects – size, colour, or otherwise – must be reported to the place of purchase prior to installation.
- STORE** product and adhesives in clean, dry environment with temperatures between 65 or 77 °F (18-25 °C) for a full 24 hours prior to installation.
- READ** product and sub-floor preparation, instructions, warranty and other disclaimers carefully and completely before beginning any installations.
- REVIEW** these important points prior to installation:
 - Determine the intended top side for the application. DuraRUBBER® sheets are reversible. Honeycomb side up will provide multi-directional drainage underneath. Honeycomb side down will allow for maximum traction on top side.
 - Installation using a brick lay pattern is recommended in order to prevent having continuous seams, and to minimize expansion and contraction.
 - Compression-fit and cut-to-fit each sheet prior to adhesion. Under certain conditions, due to its double vulcanized, non-porous properties, DuraRUBBER® sheets can be left loose laid, with a compression fit, if desired. Alternatively, GatorTAPE can be used for semi-permanent applications, and TruGLU for a permanent install.

Warning: DO NOT use recycled rubber products in conjunction with any petroleum or citrus-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.

INTRODUCTORY NOTE: This installation guide is intended to provide the necessary information for the proper installation of DuraRUBBER™ sheets. These instructions are believed to be based on industry standards and are provided for informational use only.

PERFECT SURFACES LTD. DOES NOT WARRANTY 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.

DuraRUBBER® sheets should be installed by qualified and experienced personnel.

RECOMMENDED TOOLS

Measuring Tape or Ruler
Utility Knife w/ Extra Blades
4' Straight Edge/ Drywall Square

ADDITIONAL OPTIONAL TOOLS

Chalk Line
2x4 Wood Block
Cellophane, Masking or Packing Tape
Rubber Mallet

ADHESIVE OPTIONS

GatorTAPE – Double sided tape
TruGlu adhesive

RECOMMENDED TOOLS FOR ADHESIVE INSTALLATION

Rubber gloves
Rags
50-100 lb Linoleum roller
Honeycomb Side Down: U-Notch Trowel 1/16"x1/32"x1/32" - Coverage: 150-200 ft²/ gal
Honeycomb Side Up: Square-Notch trowel 1/8"x1/8"x1/8" - Coverage: 80-100 ft²/gal

CUTTING TIPS

- 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.
- Use a straight edge that is cut proof.
- Holding the straight edge firmly in place, score the sheets two or three times. **
- 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 sheet on a raised surface, such as the 2 x 4 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.

CURING TIMES

GatorTAPE and Non-adhesive:
Foot Traffic: Immediate

TruGlu Adhesive

Indoors:
Tack Time: 15-30 minutes
Light Traffic: 12 hours
Normal Traffic: 24 hours
Heavy Duty Traffic: 72 hours

Outdoors:
Weather & humidity dependent



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ADHESIVE *(optional)*

Protect unopened containers from heat and direct sunshine. TruGlue must be stored at a temperature range of 65 to 77 °F (18-25 °C) for 72 hours before, during and after use. TruGlue has a shelf life of one year when stored at this temperature range.

- Wear gloves during application. TruGlue 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 area 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 area at the project **BEFORE** application.

CLEANING

DuraRUBBER® sheets are created using a mold. The surface of the product may contain a film from the releasing agent used during production. Use of a degreaser for the initial clean will help eliminate this glossy feel.

Sweep, sponge mop or vacuum rubber flooring for everyday maintenance.

Use Neutral pH Cleaner & Degreaser 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.

PREPARATION

Product

DuraRUBBER® sheets should reach ambient room temperature to ensure a secure, tight installation with minimal size fluctuation. Each piece should be allowed to set for a full 24 hours prior to beginning installation. This allows the product to relax and 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 vapour drive in accordance with anhydrous calcium chloride test. Vapor test 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.

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 and flaws should be filled in or repaired prior to covering with rubber products. Use patching material as appropriate.

B. WOOD BASE

Wood surfaces should be completely cleaned of dirt, dust, grease, or any 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 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. ROCK BASE

Begin preparing the surface 2-3" below the level of the finished floor. Fill prepared area with ½" 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



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INSTALLATION

Indoors

- Assume the walls, and/or curbs are not perfectly straight or square.
Begin by determining the absolute centre of the area to be installed. Determine the horizontal centre. Snap a chalk line. Determine the vertical centre. Snap a chalk line. This will become the starting point.
- Place the first sheet in the joint of the two chalk lines. (Figure 1) Maneuver the DuraRUBBER® sheet to lay precisely aligned within the two chalk lines by tapping with a mallet and wood block.
- Place the next sheet at the end of the original sheet. When butting one sheet up to the next, adjacent to or end-to-end, overlap joints by about 1/8". Then 'walk' or 'work' the joint back with your hands to eliminate overlap and avoid adhesive (if used) being shoved into seam areas. This will help ensure tight joints without gapping.
- Continue this method to the wall or stopping point in that direction. Resume laying floor the opposite side of the original sheet and continue installation to the wall or stopping point in that direction. (Figure 2) If the rubber exceeds the floor space, use a straight edge and utility knife to trim the excess length. (see cutting tips)
- Begin laying the next row at one end of the room (Figure 3), adjacent to the first row, fine tuning placement with a 2x4 and mallet. To achieve the recommended 'brick' (Figure 4) laying pattern, it may be necessary to cut the first and last sheets. (see cutting tips)

Adhesive Tips

- Gloves are strongly recommended during application, as the TruGlu adhesive may cause skin irritation. The adhesive should be applied thinly and evenly, using one of the trowels listed above. (TruGlu will cover 80 - 200 square feet per gallon.) *Do not apply more adhesive than can be utilized within a 30 min window. In ideal temperatures there is approximately 30 mins of open time to apply the adhesive and maneuver the rubber sheet onto the adhesive and position prior to curing onset.*
- Dry fit the entire room to ensure all sheets are compression-fit and no gaps are present, prior to applying any adhesive. Work one row at a time by removing the sheets, applying the glue, then replacing each sheet (as outlined in Step 3 above). If gaps present themselves, use masking, cellophane or packing tape to hold

sheets together while adhesive cures. **(Do not use duct tape as it may leave residue on surface when removed).**

- After the first 60 mins have passed, and the adhesive has begun to set, thoroughly roll the first row of sheets with a 50-100 lb carpet roller to assure bonding of the rubber to the adhesive. Be careful not to shift the roll outside of the chalk lines while rolling. Rolling should be done at 75 and 90 minutes after the initial placement of the sheet onto the adhesive. Rolling should be done both widthwise and lengthwise. This will ensure maximum contact and ultimate bond.
- ADHESIVE CLEAN UP** Before trowelling with TruGlu, cover the unused portions of the trowel with duct tape. After trowelling, tear off the tape before the material cures. Clean all tools and excess TruGlu 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 meet finished product.

Outdoors

Outdoor installations may require complete adhesion for maximum floor strength. Use the same procedures as in the indoor installation, using the TruGlu adhesive process. Use of TruGlu will also add strength and immobility to the floor. Take note of outdoor temperature when using adhesive, as it will affect curing time. In some areas, evening or night installations are best due to extreme heat. Rubber products installed outdoors will be subject to harsh UV rays, and as such may discolor.

Figure 1

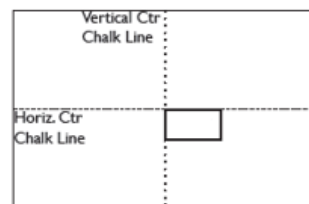


Figure 3

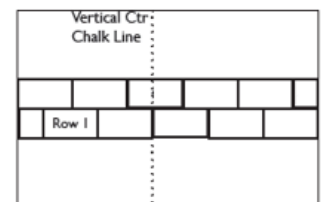


Figure 2

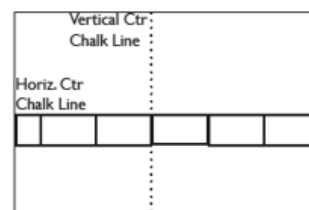
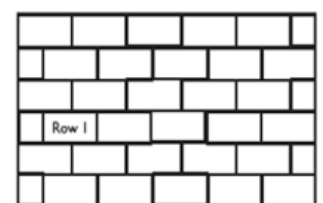


Figure 4



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PRODUCT WARRANTY

This product carries a 5-year limited warranty. (Special stipulations apply for use in equine facilities.)

Perfect Surfaces will promptly investigate the claim and will make the final determination, in its sole discretion, as to whether the claimed defect is covered under this warranty

Information and physical evidence will be required to process any claim.

Perfect Surfaces Inc. will replace the sheets and credit the customer the following amounts based on current prices at the time of replacements: 0-3 years – 100%, more than 3 but less than 4 – 75%, more than 4 but less than 5 – 50%.

Perfect Surfaces warrants each segment of the system to be free from defects in material or workmanship and agrees to replace any segment (product supply only) which discloses such defects when used under normal conditions.

This remedy covers only replacement of the product, FOB destination warehouse. In the event of a Warranty Claim, contact your dealer.

This remedy is the sole and exclusive remedy available to the Original Purchaser for breach of express or implied representations or warranties with respect to the product.

Warranty Exclusions

This warranty does not cover product failure caused by:

- Improper installation or maintenance (see installation, care and maintenance instructions) including, but not limited to, the product being installed on top of improper sub- surface preparation or improper adhesive use.
- An act of negligence, abuse, accident, misuse, including, but not limited to; vandalism, civil disobedience, act of crime, natural disaster, or the like occurs.
- Installation or issues caused by excessive moisture under DuraRUBBER® Sheets or water migration through concrete, etc.
- The material is used in applications/ locations other than those for which it was designed.
- Normal wear over time.
- Heavy use areas (i.e., players' benches, penalty boxes, main access to ice surface or change rooms) pivot points and other high stress areas where excessive wear will occur because of the nature of use.
- Gradual changes in colour shading due to exposure to sunlight and/or climatic conditions.
- Differences between actual samples, printed illustrations and/or previously purchased DuraRUBBER® Sheets.
- The sheet releases from the adhesive over time due to heavy vehicle (forklift) traffic.
- Acids, caustic materials or petroleum chemicals and the like, direct or airborne.
- Repairs, alterations or modifications made to the surfaces without prior consultation, consent or authorization from Perfect Surfaces.

Warranty will also be void in the case where:

- The Original Purchaser fails to comply with all terms and conditions stated herein.
- The Original Purchaser denies Perfect Surfaces and/or its representative access to the installed product and/or fails to cooperate in providing permission for this access.
- The original purchaser uses the product for any application other than the one it is intended for.
- Payment for the product has not been made in full.
- In the event of a Warranty Claim, proof of purchase from Perfect Surfaces or a qualified dealer is necessary for the Warranty to be valid.

Liability Limitations

The liability of Perfect Surfaces for damages resulting from the use or misuse of the product shall in no event exceed the replacement cost of the product, FOB, destination warehouse. In no event will Perfect Surfaces be liable to the original purchaser or any third party for damages, including any lost profits, lost savings, or other consequential or incidental damages arising out of the use or inability to use the product even if Perfect Surfaces and its representatives have been advised of the possibility of these damages.

If an installation is confirmed to have a legitimate warranty claim it is the responsibility of the manager(s) of the facility to secure the site and prevent its use until repairs are made and the site is returned to standard. Perfect Surfaces will not be liable for any injuries, incidents or damages that occur on a warranty claim site prior to the site being remedied.

Some jurisdictions do not allow the limitation of liability for incidental or consequential damages so the above may not apply.

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

Perfect Surfaces rubber sheets are not to be used in any manner or for purpose not expressly identified by Perfect Surfaces Ltd.



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