

This document is intended to cover substrate preparation requirements and installation instructions for all Rubber Flooring concepts for Roppe. If there are any questions or concerns, or you desire a specific installation instruction for a product and/or application please reach out to solutions@rhctechical.com.

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Recommended Adhesive Coverage Rates, Moisture and Traffic Limits after Installation*							
Adhesive	Porous	Non-Porous	RH% Limit	MVER Limit	Light	Heavy	Maintenance
SP-500	150 sq. ft. / unit		90%	8 lbs.	Immediate	24 Hours	48 Hours
AP-520, R	400 sq. ft.		90%	6 lbs.	Immediate	Immediate	72 Hours
AP-520, T	225 sq. ft.		90%	6 lbs.	24 Hours	48 Hours	72 Hours
AW-510	160 sq. ft.	225 sq. ft.	90%	6 lbs.	24 Hours	48 Hours	72 Hours
MS-700	160 sq. ft.	235 sq. ft.	95%	10 lbs.	8 Hours	24 Hours	48 Hours
U-705	160 sq. ft.	235 sq. ft.	100%	12 lbs.	8 Hours	24 Hours	48 Hours
*coverages are per gallon unless noted otherwise							
*rates are approximate and subject to level of porosity as well as ambient conditions, actual values may vary							
R = Roller Application, T= Trowel Application							

1. PRE-INSTALLATION

Prior to acceptance of this document refer to website www.roppe.com to confirm that you have the most current revision. Consult all associated product literature concerning adhesive installation, maintenance and warranty prior to installation of flooring. Allow all trades to complete work prior to installation when possible. Deliver all materials to the installation location in its original packaging with labels intact. Do not stack pallets to avoid damage. Remove any plastic and strapping from packaging after delivery. Inspect all material for proper type, color and matching lot numbers if appropriate. Ensure that all adhesives intended for installation are approved for use with accessory material. Turn off radiant-heated flooring systems 48 hours prior to installation. 48 hours after installation, gradually increase the temperature over the course of 24 hours to a maximum temperature of 85°F (29.5° C). Do not proceed with installation until all conditions have been met.

1.1 STORAGE, ACCLIMATION & SERVICE ENVIRONMENT

Ensure material is adequately stored at temperatures between 65° F (19° C) and 85° F (30° C) prior to installation. This product is designed, manufactured and tested to perform at constant temperatures, not fluctuating more than 4° from normal selected service temperatures from the allowable 65° F (19° C) - 85° F (30° C) range.

During acclimation, the site must be fully enclosed, weather tight, and material must be in the installation area with the HVAC system functional and operating at desired service temperatures for a period of 48 hours prior to installation, during the installation and for the service life of the installation afterwards.

It is recommended to maintain an ambient relative humidity between 40% and 60% for a period of 48 hours prior to installation, during the installation and for the service life of the installation afterwards. If the material will be installed outside of the above acclimation and service temperature ranges contact Technical Services for more detailed installation recommendations. Do not proceed with installation until all conditions have been met.

1.2 PRODUCT LIMITATIONS

Do not install flooring material over LVT, cushioned vinyl, hardwood flooring, cork, rubber, or asphaltic materials. Do not install flooring material in outdoor areas and in or around commercial kitchens or areas that may be exposed to animal or vegetable fats and oils, grease and petroleum-based hydrocarbons (unless product is specifically intended for that application as directed in the installation exceptions area of the document). Do not install in areas that may be subjected to sharp, pointed objects. Do not allow product to be directly exposed to direct sunlight or extreme heat sources, such as radiators, ovens or other high-heat equipment. Long term, extended or excessive exposure to Sunlight & UV Heat can cause discoloration or other undesirable effects, so use caution and/or window treatments in these areas. Dragging or sliding objects across the flooring may cause damage to the flooring. May be susceptible to staining from rubber tires, casters or rubber-backed walk-off mats, as well as harsh disinfectants,

cleaning agents, dyes or other harsh chemicals, ensure all chemicals and materials that may come in contact with flooring surface will not stain, mar or otherwise damage the flooring material prior to use.

2. SUBSTRATE PREPARATION

In regards to substrate preparation when mechanical sanding, grinding, shot blasting and vacuuming always follow the Resilient Floor Covering Institute's (RFCI) "Recommended Work Practice for Removal of Existing Floor Covering and Adhesives", and all applicable local, state, federal and OSHA requirements in regards to Asbestos and Silica containment regulations.

All substrates must be prepared according to the following information or ASTM F710 or ASTM F1482 at a minimum, as well as applicable ACI and RFCI guidelines. Substrates must be clean, smooth, permanently dry, flat, and structurally sound. Substrates must be free of visible water or moisture, dust, sealers, paint, sweeping compounds, curing compounds, residual adhesives and adhesive removers, concrete hardeners or densifiers, solvents, wax, oil, grease, asphalt, visible alkaline salts or excessive efflorescence, mold, mildew and any other extraneous coating, film, material or foreign matter.

It is recommended that all substrates have a floor flatness of FF32 and/or a flatness tolerance of 1/8" in 6' or 3/16" in 10'. Substrates that do not meet this requirement should have a compatible cementitious patch (such as the Excelsior CP-300) or self-leveling underlayment (such as the Excelsior SU-310) installed to flatten the installation area.

All substrates must have any and all existing adhesives, materials, contaminants or bond-breakers mechanically removed via scraping, sanding, grinding or buffing with a 25 grit DiamaBrush Prep Plus tool prior to adhesive installation. In extreme situations, shot-blasting may be required. Mechanical preparation must expose at least 90% of the original substrate. Following cleaning and removal, all substrates must be vacuumed with a HEPA approved vacuum and flat vacuum attachment to remove all surface dust. Sweeping without vacuuming will not be acceptable.

Do not use solvent/citrus based adhesive removers prior to installation.

2.1 CONCRETE SUBSTRATES

All concrete must have a minimum compressive strength of 3500 PSI and be prepared in accordance with information below. When flooring is being installed directly over concrete, concrete surfaces that have an ICRI Concrete Surface Profile (CSP) over 4 should be smoothed with a self-leveling underlayment or a patch to prevent imperfections from telegraphing through flooring materials.

All substrates must be tested per ASTM F3191 to confirm porosity. Use a pipette or equivalent to conduct three tests by placing a .05 mL (1/4" wide) droplet of clean, potable water onto the surface. If the substrate absorbs water within 60 seconds, the substrate is considered porous. Conduct 3 tests for the first 2000 sq. ft. and one for each additional 3000 sq. ft., at least one per room. All other substrates that do not meet this requirement are considered non-porous. Ensure that all non-porous substrates are not contaminated with any aforementioned contaminates.

In addition to ASTM F2170 Relative Humidity Testing, existing concrete that has previously had floor covering installed on all grade levels must be tested in accordance with ASTM F1869, using Calcium Chloride test kits, to quantitatively determine the Moisture Vapor Emissions Rate (MVER) of the concrete.

If ASTM F2170 or ASTM F1869 test results exceed the prescribed limits, a moisture mitigation product, such as Excelsior MM-100 Moisture Mitigation, must be installed prior to proceeding with installation.

2.2 CHEMICALLY ABATED SUBSTRATES

In situations where existing flooring adhesive was removed chemically, the follow conditions now exist. Since there are known concerns with the chemical abatement process, including the following; (1) once the chemical is present in the substrate it cannot recognize the difference between the old adhesive and the new adhesive, (2) it is

considered a penetrant and there is no way to know how deep into the substrate it could have penetrated into the substrate due to porosity, (3) there is no way to tell (in a short term test) if the substrate has been neutralized or rinsed (abatement chemical removed) well enough to accept new adhesive. The two most common mechanical abatement methods are shot blasting or hydro blasting. We also recommend all abatement be performed by a licensed and trained professional, familiar with local, state and federal laws.

However, if a chemical abatement has already been performed, we recommend the Mapei process to prepare the substrate to receive a finish flooring product. The Mapei process is to scour the substrate using the Planiprep SA according to Mapei instructions, the top with the Planiprep ET according to Mapei instructions. Then treat the substrate as non-porous for the selection of installation methods.

2.3 RESINOUS SUBSTRATES

When installing directly over a resinous products, such as the Excelsior MM-100 or an epoxy coating, ensure that coating is dry to the touch and has cured for the prescribed length of time. Substrate must be clean, dry, sound and free of contaminates. Resinous substrates are considered **non-porous** so ensure selected adhesives can be used over non-porous substrates and follow all installation instructions and flash times for non-porous substrates.

2.4 GYPSUM BASED SUBSTRATES

Gypsum-based substrates must have a minimum compressive strength of 3500 PSI. Gypsum substrates that do not meet this requirement may have one coat of the Excelsior MM-100 installed to improve the top layer bonding strength of the substrate. Substrate must be structurally sound and firmly bonded to the subfloor below. Any cracked or fractured areas must be removed and repaired with a compatible patch or repair product. Follow instructions for installation over a gypsum substrate. New or existing gypsum substrates may require the substrate has a primer or sealer applied just prior to finished floor being installed. Follow all manufacturers' recommendations regarding preparation for resilient flooring installation.

2.5 WOOD SUBSTRATES

Wood substrates must be prepared in accordance with ASTM F1482. Prior to installation, moisture retardant sheathing with a maximum rating of 1.0 perm must be installed beneath the wood subfloor, overlapped at least 8". Other wood subfloor materials, such as OSB, lauan, particleboard, chipboard or cementitious tile backer boards, are not acceptable subfloors. Avoid preservative treated and fire-retardant plywood, as some may be manufactured with resins or adhesives that may cause discoloration or staining of the flooring.

This also includes plywood sheathing designed for long lasting exposure to exterior climates. These also could contain resins/waxes that could stain or be considered bond breakers. Always refer to those manufactures recommendations. If the subfloor materials mentioned above are already installed or the wood substrate is old and not repairable, the use of multi-ply Underlayment Grade plywood at a minimum of ¼" thick with a fully sanded face will be required. Wood subfloor deflection, movement, or instability will cause the flooring installations to release, buckle or become distorted. As such, do not use plastic or resin filler to patch cracks. Do not use cement or rosin coated nails and staples or solvent-based construction adhesives to adhere the plywood. Only install over a properly constructed sleeper system (wood subfloor system over concrete, consult the technical department for further details) and do not install directly over Sturd-I-Floor panels.

2.6 METAL SUBSTRATES

Metal substrates must be thoroughly sanded/ground and cleaned of any residue, oil, rust and/or oxidation. Substrate must be smooth, flat and sound prior to installation. When installing in areas that may be subject to topical water or moisture and/or high humidity, an anti-corrosive coating must be applied to protect metal substrate. Contact a local paint or coating supplier for coating recommendations. Install flooring within 12 hours after sanding/grinding to prevent re-oxidation. Any deflection in the metal floor can cause a bond failure between the adhesive and the metal substrate. Be sure to follow installation procedures and trowel sizes for non-porous substrates. Installing over Checker plate or Diamond plate is not recommended.

2.7 CRACKS, JOINTS & VOIDS

All cracks, joints and voids, as well as the areas surrounding them, must be clean and free of dust, dirt, debris and contaminants. All minor cracks and voids 3/64" or less may be repaired with a suitable cementitious patch. Due to the dynamic nature of concrete slabs, manufacturer cannot warranty installations to cover expansion joints, cracks or other voids such as control cuts, saw joints, moving cracks, and/or voids. Do not install flooring directly over any expansion joints as all expansion joints should be honored and have a suitable expansion joint covering system installed to allow expansion joint to move as it was designed. In areas where random cracks are 3/64" or greater it is hard to tell if the slab will continue to move or has finished moving. Consult a structural engineer if there are any questions or concerns with a crack or joint, especially those that may affect structural integrity such as expansion joints or excessive random cracking in areas that are not designed to move.

2.8 EXISTING FLOORING SUBSTRATES

Existing rubber flooring and LVT, as well as the adhesives used to install them, must be completely removed from the substrate prior to installation. Existing VCT, VAT, quartz tile, solid vinyl tile, sheet goods, hardwood flooring, asphaltic materials and existing adhesives or adhesive residue must have a compatible cementitious patch or underlayment installed over the substrate prior to installation. Existing hardwood flooring requires suitable underlayment grade plywood be installed over the substrate.

New flooring may be installed over existing stone flooring substrates, such as terrazzo, porcelain or ceramic tile. Ensure existing flooring is a single layer of material and that all materials are clean, dry, sound, solid, well adhered and free of site-applied finishes, waxes and/or contaminants. Any and all loose tiles must be removed and repaired or replaced. All grout lines and irregularities must be filled and troweled flush with a suitable primer and patch such as the Excelsior NP-230 and CP-300 to prevent telegraphing of the existing floor. All existing flooring substrates that are outside of flatness tolerances that cannot be repaired with the Excelsior CP-300 patch should be leveled with the SU-310 self-leveling underlayment to achieve a smooth, flat substrate.

All existing flooring substrates must have any and all site-applied finishes and/or waxes completely removed prior to flooring installation in order to ensure a proper adhesive bond. For mechanical removal, use a low-speed buffer and 40-60 grit sandpaper. Properly prepared substrates should not have any remaining gloss or sheen. For chemical removal, ensure chemical treatments will not disrupt adhesion of the existing flooring to the substrate. Be sure to rinse the existing flooring adequately with clean, potable water to remove any and all chemicals from the surface of material.

Do not install flooring until any moisture on, between or below existing flooring has completely dried. Ensure all dust; dirt and debris are removed prior to flooring installation.

2.9 RADIANT HEATING SUBSTRATES

When installing flooring over a substrate that contains a radiant heating system, ensure the radiant heat is turned off 48 hours prior to installation and remains off during the entire installation. The radiant heat may be turned on 48 hours after installation and the normal operating temperature should be increased gradually over the course of 24 hours. Ensure the temperature of the radiant heating system does not exceed 85° F (29.5° C) and avoid making abrupt changes in radiant heating temperature.

2.10 LOOSE LAY MOISTURE OR SOUND CONTROL PRODUCTS

When installing over Loose Lay moisture or sound control products, please contact Technical Services with the product information you are installing over for further directions.

3. INSTALLATION

Rubber Flooring products typically do not need a sound deadening underlayment to be effective in reducing sound transmission. The use of a sound deadening underlayment will diminish the performance properties of the product. If using a sound deadening underlayment it should be no thicker than 2.5mm and

most should be treated as a non-porous substrate at time of installation and if you have any questions or concerns, please contact technical services for installation information.

Ensure substrate is suitably prepared prior to installation, as manufacturer is not responsible for substrates that have not been properly prepared and tested for moisture. Ensure adhesive is approved for use with flooring material and the proper trowel type and size is used, as manufacturer is not responsible for any and all adhesion issues related to improper adhesive selection or usage. Select appropriate adhesives, such as wet-set acrylics or urethanes, for areas that will have excessive window/sunlight exposure from walls or ceilings such as sunrooms, window walls, skylights, etc. In these type areas a wet-set adhesive that sets hard should be used such as AW-510, MS-700 or U-705.

Prior to installation, confirm material installation pattern and direction per design specifications or work order. Inspect all tiles before installing or during installation to verify that there are no visible defects, damages or excessive shading variations. Blend materials from several cartons to ensure consistent appearance and color or shade variation. Some flooring products, colors and textures have latent and acceptable color and shade variations. If there are concerns regarding shade or color variation, do not install material and consult a sales representative and manufacturer's technical staff.

Ensure substrate is clean, dry, flat, and sound prior to installation. Ensure the room is square using the 3-4-5 squaring rule or similar method to ensure acceptable installation. Determine lay out for the area if not provided by dry laying the material with the area. Cut borders and other specialty pieces to fit snugly against or around walls, thresholds, transition strips, fixtures and other protrusions or accessories. Ensure material around perimeter is 1/8" from wall or less, depending on depth of wall base or trim. Ensure all end seams are a minimum of 6" apart.

Use a nail-down guide or equivalent along starting row to expedite wet-set installation. Apply adhesive according to instructions for specific product in use and observe adhesive flash times, if applicable. Ensure all adhesive working times are observed and followed. Be sure to follow instructions based on substrate porosity (porous or non-porous). Use below chart for reference.

Install material into adhesive and observe directional arrows on back of tile to ensure arrows are installed in the same direction, unless installing in a specific and pre-determined design, such as a quarter-turn design. For larger installations, use a pyramid layout when installing tiles to eliminate run-off.

When installing into adhesive using a wet-set method, avoid walking or working on material until adhesive has cured for light foot traffic. Working on material that is installed into wet adhesive could cause adhesive to displace. When working off of material is not possible, use a kneeling board or equivalent to disperse weight evenly and prevent adhesive displacement. Pay close attention to working time to avoid adhesion issues. This may require installing material in smaller sections. Replace trowels at recommended intervals to maintain proper trowel ridge and spread rate.

Periodically lift material to ensure proper adhesive transfer and ensure adhesive has not surpassed the open time – adhesive should cover 90% of tile. Roll material with a 3 section, 100 lb. roller within 30 minutes of installation, crossing in a perpendicular direction after initial roll. Use a hand roller in areas that cannot be reached with larger roller.

Visually inspect installation to ensure that material has not shifted and that adhesive has not been squeezed out of joints or compressed onto surface. Clean excessive adhesive or adhesive residue from the surface of the material per adhesive recommendations. ***Do not apply abrasive or solvent based cleaners directly to flooring material.***

3.1 ENVIRE RUBBER SHEET INSTALLATION EXCEPTIONS

All of the adhesives listed in the chart at the beginning of this document are available for use when installing Envire Rubber Sheet. SP-500 & AP-520 are only approved on installations with seams that will be heat welded. Product is lot controlled by Roll Numbers and it is suggested to install as sequential as possible.

There are directional arrows on the back of this product. Ensure each roll is rolled out in the same direction.

Factory seams are not to be used as finished seams. Material is manufactured to a nominal 74" width to allow for double cutting seams along the length of the roll. Do not overlap flooring seams with any seams in substrate. Once seam location is established, layout and rough cut material from roll, overlapping seams by at least $\frac{3}{4}$ " per edge. Vertical seam must stagger by 3' – 4', depending on room size and roll length. Seams must be cut prior to installing material with adhesive, using one of the two methods below.

3.1.1 TRIM & SCRIBE METHOD FOR WELDED SEAMS

Prior to installation and heat-welding, each roll must be trimmed by $\frac{3}{4}$ ". Use a straight edge or selvage edge trimmer to remove 1" of material to create a clean edge.

Use a hinge scribe to scribe and cut the top sheet in order to create a $\frac{1}{64}$ " (0.012" - 0.014") gap between sheets. This gap will create a path for the heat-weld grooving tool wheel to follow. As such, do not exceed prescribed gap in order to maintain seam integrity and strength.

3.1.2 DOUBLE CUT METHOD FOR BUTTED SEAMS

Prior to preparing seams intended to be tight but not heat welded, ensure rolls are overlapped by $\frac{3}{4}$ " on each roll. Set a straight edge (such as scrap material) along top sheet, making sure it is sitting flat and flush, not at an angle.

Cut through both sheet of material, ensuring that knife blade is straight and vertical. Prevent stretching or moving material, as multiple cuts may be required to cut through both sheets. Once cut, remove scrap and check seam. Seam should be tight, but not over-compressed.

Once all seams have been cut, carefully fold back half of material and apply adhesive according to instructions for specific product in use. Once adhesive has been applied and flashed, carefully roll material back into adhesive to avoid trapping air between the adhesive bed and the material. If heat-welding, ensure that adhesive does not ooze into seams. Pay close attention to flash times and working times in order to avoid installing into adhesive that is too wet or dry.

When installing into adhesive using a wet-set method, avoid walking or working on material until adhesive has cured for light foot traffic. Working on material that is installed into wet adhesive could cause adhesive to displace. When working off of material is not possible, use a kneeling board or equivalent to disperse weight evenly and prevent adhesive displacement. To prevent movement, dust, dirt, debris and topical moisture in or around seams, tape seams together or at recommended distance after installation using a multi-purpose masking tape intended for flooring and hard surfaces. Material that has been cut towards the inside end of the roll may be prone to edge-lifting and curling on end seams and butted seams, if this is evident after installation, use weight to weigh down edges.

Roll installation area with a 3 section, 100 lb. roller within 15 minutes of installation, crossing in a perpendicular direction after initial roll. Do not wait until completing the entire installation before rolling as the adhesive may have surpassed the open time and cured. Roll and cross roll a second time approximately 30 minutes after the initial rolling.

If adhesive is oozing out of seams or material is shifting excessively, adhesive may be too wet for installation. Review open times and allow adhesive to flash longer prior to installing material into adhesive. Clean excessive adhesive or adhesive residue from the surface of the material according to adhesive instructions.

3.1.3 SELF-COVE OR FLASH-COVE INSTALLATION ONSITE

Prior to creating and installing a flash cove, measure desired flash cove height and install appropriate Cove Cap at desired height. Using the appropriate adhesive, install the appropriate cove stick or fillet strip directly to wall-floor joint to provide the desired radius for the flash cove.

Caution: Ensure that the accessory material is not stretched or over-compressed during installation. Stretching material may cause the accessory to shrink back to its original length causing end seam gapping.

While bending material to desired radius, measure and cut flash cove to meet cove cap, ensuring there is full contact with the cove stick. If flash cove does not make full contact with cove stick, cove and/or material could become damaged over time. Pattern scribe and cut all difficult fill pieces prior to spreading adhesive. Use the Boot / Mitered outside Corner method for creating outside corners. After spreading the appropriate adhesive, install the material directly to the cove stick and the wall and roll using a hand roller.

3.1.4 HEAT WELDING INSTRUCTION

Ensure that adhesive has cured for recommended period of time prior to beginning heat-welding.

Prior to cutting heat-welding groove, ensure gap between seams is free of adhesive, dust, dirt, debris and contaminates. When using electric grooving machine blade to cut groove depth at 66% of the total thickness of the tile (~1/16" deep for 2.5mm material). When using a hand grooving or electric grooving machine, test groove depth on scrap material to ensure proper depth is achieved. While grooving, ensure removal is split between each side of the roll, 50% per side as much as possible. Hand-grooving may be required near walls, protrusion and other obstacles. Remove any and all loose pieces of flooring as well as any other debris from groove prior to welding.

Using a hot air welding gun, insert the appropriate Rubber Welding Rod through the 4mm welding tip and into the center of the routed groove or seam. Prior to welding, test weld on scrap material to ensure temperature settings and welding speeds are correct and achieve a successful bond.

Do not allow foot traffic or trim welding bead until welding bead has completely cooled. To trim seam, use a clean, sharp quarter-moon spatula knife and a clean trim plate or a Crain Mozart trimmer. After one hour, trim seam again with a quarter-moon spatula knife to create a smooth, level seam surface. If seam imperfections are observed, use a hot air gun to smooth out imperfections.

3.2 ENVIRE RUBBER TILE INSTALLATION EXCEPTIONS

All of the adhesives listed in the chart at the beginning of this document are available for use when installing Rubber Tile. Product is lot controlled and material from different lot control numbers should not be combined unless shade variation is deemed acceptable.

There are directional arrows on the product and they are intended to be installed monolithically in the traditional point to point method.

3.3 RUBBER TILE INSTALLATION EXCEPTIONS

All of the adhesives listed in the chart at the beginning of this document are available for use when installing Rubber Tile. Product is lot controlled and material from different lot control numbers should not be combined unless shade variation is deemed acceptable.

There are directional arrows on most of the products and they are intended to be installed monolithically in the traditional point to point method.

3.3.1 DIMENSIONS RUBBER TILE

When installing Dimensions Rubber Tile there are recommendations based on the profile for the proper installation. There are some options in some of the profiles so it is best to do a small mockup prior to adhering.

982 Crackle Design is recommended to install Monolithically.

983 Random Design is recommended to install in a random orientation just as it is named. There is no specific way to create a design and/or line up the patterns.

984 Stripe Design is recommended to install in a quarter-turn method with a brick or ashlar pattern. If installed in a monolithic pattern the lines are not guaranteed to line up.

3.3.2 DESIGNERS CHOICE RUBBER TILE

When installing Designers Choice, and depending on the patterns, some shapes will be left handed or right handed. Be sure to identify these tiles before installation. Due to the complexity of some designs a mockup is always recommended and ensures all tiles are accounted for prior to starting installation.

3.4 PERFORMANCE COMPOUND - OIL & GREASE RESISTANT RUBBER TILE INSTALLATION EXCEPTIONS

Only the MS-700 or U-705 Adhesives are approved for the installation of the Performance Compound - Oil & Grease Resistant Rubber Tiles. It is also important to review the substrate for the installation of these products to ensure there is no contamination from previous exposure to Oil & Grease.

Product is not intended to be installed in a commercial kitchen or areas with exposure to vegetable and/or animal fats.

All products are lot controlled and material from different lot control numbers should not be combined unless shade variation is deemed acceptable.

There are directional arrows on most of the products and they are intended to be installed in the traditional point to point method.

3.5 SPIKE/SKATE RESISTANT TILE INSTALLATION EXCEPTIONS

Only the MS-700 or U-705 adhesives are approved for the installation of the Spike/Skate Resistant Rubber Tiles.

All products are lot controlled and material from different lot control numbers should not be combined unless shade variation is deemed acceptable.

There are directional arrows on the product and it is intended to be installed in a monolithic pattern with the traditional point to point method.

3.5.1 ICE RINK INSTALLATIONS

Spike/Skate may be installed in and around ice rinks. However, certain precautions must be followed to ensure successful installation. Ensure substrate is clean, dry, and flat and sound prior to installation – give standing water or condensation time to dry prior to installation.

Ensure substrate temperature is above 40° F (4° C) to allow adhesive to properly cure. Do not fill voids between the concrete slab and the ice slab, as this void is necessary for expansion and contraction. When butting directly to ice rink walls or boards, the Maxime Plus may be used to bridge these voids. Due to the oval shape of most ice rinks and arenas, there may be several small cut tiles around the perimeter – ensure all small cut tiles are well adhered.

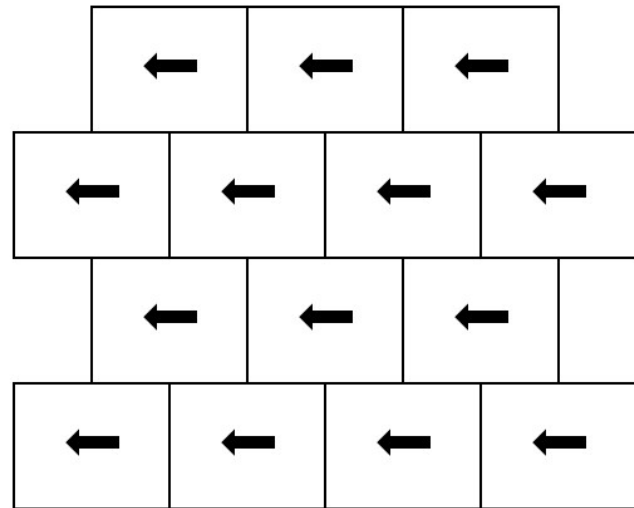
3.6 TUFLEX SPARTUS MULTIPURPOSE SPORTS FLOORING INSTALLATION EXCEPTIONS

Only the MS-700 or U-705 adhesives are approved for the installation of the Tuflex Spartus Rubber Tiles.

All products are lot controlled and material from different lot control numbers should not be combined unless shade variation is deemed acceptable.

There are directional arrows on the product and it is intended to be installed in a monolithic pattern with a brick or ashlar pattern instead of the traditional point to point method, of course interlocking tiles will be installed in a monolithic pattern in a traditional point to point method.

This is due to the finishing method and this installation process will produce the best appearance in the product. Square Edge material installed in a traditional point to point method could highlight the seams more than the ashlar or brick pattern installations.



Brick or Ashlar Pattern

3.6.1 INTERLOCKING INSTALLATION

Interlocking tiles are recommended to be installed without adhesive as a loose-lay product. However, adhesive can be used if desired according to the recommendations in the above section.

There are directional arrows on the product and it is intended to be installed in a monolithic pattern.

Whenever possible, avoid installing flooring seams directly over seams in the substrate. If possible, borders and perimeter pieces should be no less than 1/2" the width of the tile. Material should be no less than 1/8" from the wall to allow for expansion and so the tiles will not buckle.

3.6.2 ICE RINK INSTALLATIONS

Tuflex Spartus may be installed in and around ice rinks. However, certain precautions must be followed to ensure successful installation. Ensure substrate is clean, dry, and flat and sound prior to installation, give standing water or condensation time to dry prior to installation.

Ensure substrate temperature is above 40° F (4° C) to allow adhesive to properly cure. Do not fill voids between the concrete slab and the ice slab, as this void is necessary for expansion and contraction. When butting directly to ice rink walls or boards, the Maxime Plus may be used to bridge these voids. Due to the oval shape of most ice rinks and arenas, there may be several small cut tiles around the perimeter, ensure all small cut tiles are well adhered.

In areas where skate traffic is expected, ensure skate guards are worn to prevent damaging the tile.

3.7 RECOIL FITNESS FLOORING EXCEPTIONS

Only the MS-700 or U-705 adhesives are approved for the installation of the Recoil. Due to the recycled nature of the Recoil Fitness Flooring there are several limitations that should be reviewed prior to installation.

Material contains skive lines from the manufacturing process on the surface. We do not consider them as defects; however it is recommended to ensure they are acceptable to the end user prior to installation of material. Material that is installed is consider as accepted by the installation contractor and not covered by the product warranty.

Material is not approved for installation over substrates that contain radiant heat of any kind.

Color variation can and will be present from piece to piece and roll to roll.

Material is not approved for installation in areas where exposure to ice skates without blade guards is expected.

Material in areas where free weights and/or dumbbells over 50 lbs. will be used should be 3/8" thick or greater.

Material is not recommended for basketball or volleyball playing surfaces.

3.7.1 SQUARE EDGE TILES

All installations of Square Edge Recoil Tiles must be fully adhered whether installed indoors or outdoors.

There are stickers on the face of the tiles (this side up with a directional arrow in orange) on the product and it is intended to be installed in a monolithic pattern with the traditional point to point method.

3.7.2 INTERLOCKING TILES

Interlocking tiles are recommended to be installed without adhesive as a loose-lay product. However, adhesive can be used if desired according to the recommendations in the above section.

There are stickers on the face of the tiles (this side up with a directional arrow in orange) on the product and it is intended to be installed in a monolithic pattern with the traditional point to point method.

All installations of Interlocking Recoil Tiles utilizing 5/32" & 1/4" thick material must be fully adhered whether installed indoors or outdoors.

All installations of Interlocking Recoil Tiles utilizing 3/8" & 1/2" thick material outdoors must be fully adhered.

All installations of Interlocking Recoil Tiles in areas that will be utilizing free weights and/or dumbbells over 50 lbs. should be adhered in that area to improve performance. We make this recommendation to avoid any issue with the locking tab mechanisms and separation as a result of the dropped weight.

Indoor applications of these thicknesses may be loose laid or fully adhered.

Whenever possible, avoid installing flooring seams directly over seams in the substrate. If possible, borders and perimeter pieces should be no less than 1/2" the width of the tile. Material should be no less than 1/8" from the wall to allow for expansion and so the tiles will not buckle.

3.7.3 ROLLS

All installations of Rolled Recoil Material must be fully adhered whether installed indoors or outdoors.

There are direction arrows on the back of this product. Ensure each roll is rolled out in the same direction. Reversing of the arrows at the seams will cause shading due to the reflection of light.

After positioning the first roll of material, position the second roll alongside the first roll and check factory side seams for seam acceptance. If the factory side seams are not acceptable the material should be double cut or scribe cut using a straight edge prior to installation to ensure tight seams.

If the factory side seams are acceptable overlap the second roll over the side seam of the first roll no more than 1/16". Once the adhesive is applied beneath the seam during installation, work the overlapped seam material back to eliminate the overlap (do not leave the seams overlapped). Following this procedure will ensure the seams are fitted tightly together, eliminating unsightly gaps.

Once material has acclimated and all end seams have been cut, and side seams if necessary, carefully fold back half of material and apply adhesive according to instructions for specific product in use. When necessary, use weights (such as unused adhesive pails) to hold material back while adhesive flashes. Once adhesive has been

applied and flashed, carefully roll material back into adhesive to avoid trapping air between the adhesive bed and the material. Work the material into the wet adhesive eliminating any overlaps, if any, to ensure the seams are fitted tightly together, eliminating unsightly gaps. Ensure that adhesive does not ooze into seams.

To prevent movement, dust, dirt, debris and topical moisture in or around seams, tape seams together or at recommended distance after installation using a residue-free releasable tape (such as 3M painters tape). Material that has been cut towards the inside end of the roll may be prone to edge-lifting and curling on end seams and butted seams – if this is evident after installation, use weight to weigh down edges.

3.8 ROP-CORD RECYCLED RUBBER TILE INSTALLATION EXCEPTIONS

Only the MS-700 or U-705 adhesives are approved for the installation of the Rop-Cord Recycled Rubber Tiles. Due to the recycled nature of the Rop-Cord Recycled Rubber Tiles there are several limitations that should be reviewed prior to installation.

Material is not approved for installation over substrates that contain radiant heat of any kind.

Material installed in outdoor applications or within 20' of entryways must be the Vulcanized product and we recommend the natural color.

Outdoor installation, exposure to sunlight and foot traffic will cause discoloration and the material to fade to the natural color due to the process of dying the material. It will resort back to the natural color of the tire cord. We do not recommend the application of Dyes to re-color product after fading.

During the installation of Rop-Cord Recycled Rubber Tiles it is required to be installed in a quarter-turn pattern while leaving a 1/16" gap around each tile to ensure the ideal overall visual appearance. Tile will expand after installation to fill the gaps. If installed in a monolithic pattern it is not guaranteed that they individual strips of material will line up.

4. FLOORING PROTECTION AFTER INSTALL

Protect newly installed flooring and accessories with construction grade paper or protective boards, such as Ram Board, ThermoPLY, Masonite or other materials to prevent damage by other trades. Do not slide or drag pallets or heavy equipment across the new accessories. Limit usage and foot traffic according to the adhesive's requirements. When moving appliances or heavy furniture, it is a good idea to protect flooring and accessories from scuffing or tearing using temporary floor protection.