

Product Description

Rop-cord is a durable, slip-resistant flooring product manufactured from recycled automobile tires. Rop-cord is designed for demanding commercial applications, indoors or outdoors. Rop-cord can also be used in areas that may be subjected to cleats and spikes, which will damage most other flooring products. Rop-cord's non-slip properties make it a great choice for inclined ramps, walkways,

stairwells, and airport passenger loading bridges. Rop-cord is easy to trim and cut, especially for borders or other hard-to-fit areas. Rop-cord's ribbed construction is soft enough to be comfortable under foot, yet sturdy enough to withstand the heaviest wear. Rop-cord vulcanized tile is perfect for exterior installations where the weather conditions will adversely affect other flooring materials.

Ideal For:

Education: entryways, vestibules, and ramps

Transportation: airports, passenger loading bridges and waiting areas

Sporting Facilities: locker rooms, equipment rooms and athletic complexes

Leisure: Golf pro shops, skating rinks and ski lodges

Features

- **PVC Free**
- **Does Not Require A Finish**
- **Noise-Reducing Material**
- **Excellent Chemical Resistance**
- **Superior Slip Resistance**
- **ADA Compliant for Use On Ramps**
- **Qualifies for LEED® Credits**
- **FloorScore® Certified**

Technical Data

Nominal Dimensions: **12" x 12" x 9.52mm**

Backing: **Vulcanized**

Non-Vulcanized

Finish: **Ribbed**

Weight Per Tile: **~2.1 lbs.**

Quantity Per Carton: **25 Tiles**

LEED v2009 IEQ Credit 4.1: **Qualifies**

LEED v2009 IEQ Credit 4.3: **Qualifies**

Recycled Content: **90%, Post-Consumer**

ASTM D2859 (FF1-70, 16 CFR 1630)

Ignition Characteristics: **Passes**

Acclimation Time: **48 Hours**

Storage & Acclimation Temperature: **65° - 85° F**

Additional Information

Approved Adhesives

MS-700 Modified Silane
EW-710 Epoxy Wet Set Adhesive

Availability, Cost & Samples

Roppe Flooring products are sold through distribution. To locate the nearest distributor, visit roppe.com or send an e-mail to support@roppe.com.

Technical Documents & Support

Additional product resources and technical documents are available online at roppe.com. For additional technical support, send an e-mail to solutions@rhctechical.com.

1. PRE-INSTALLATION CHECKLIST

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.

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 product 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 flooring material.

Ensure installation area and material storage temperatures are between 65° F (19° C) and 85° F (30° C) for at least 48 hours before, during and maintained during the service life of the product, unless being installed outdoors. If installing outdoors, ensure substrate is free of standing water and conditions are consistent enough to ensure proper curing of the adhesives used.

Ensure HVAC system is operational and fully functioning at normal operating conditions. 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).

Ensure all substrate preparation and moisture testing requirements have been performed, read and/or understood by all interested parties. Protect installation area from extreme temperature changes, such as heat and freezing, as well as direct sunlight for at least 48 hours before, during and after installation. Do not proceed with installation until all conditions have been met. Consult all associated product literature concerning adhesive installation, maintenance and warranty prior to installation of flooring.

2. PRODUCT LIMITATIONS

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 dyeing the material. It will resort back to the natural color of the tire cord.

Do not install materials over LVT, cushioned vinyl, hardwood flooring, cork, rubber, or asphaltic materials.

Do not install flooring in or around commercial kitchens.

Do not install non-vulcanized material outdoors or indoors within 20' of entryways.

Do not allow product to be directly exposed to extreme heat sources, such as radiators, ovens or other high-heat equipment.

May be susceptible to staining from 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.

3. SUBSTRATE PREPARATION

All substrates must be prepared according to ASTM F710, as well as applicable ACI and RFCI guidelines. Substrates must 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.

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, shotblasting 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 flat vacuum attachment or damp mopped with clean, potable water to remove all surface dust. Sweeping without vacuuming or damp mopping will not

be acceptable.

All porous 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 3000 sq. ft. and one for each additional 2000 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 contaminants.

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.

Do not use solvent/citrus based adhesive removers prior to installation. Follow The Resilient Floor Covering Institute's (RFCI) "Recommended Work Practice for Removal of Existing Floor Covering and Adhesive", and all applicable local, state, federal and industry regulations and guidelines. When removing asbestos and asbestos containing materials, follow all

Adhesive RH Limits

MS-700 Modified Silane: **95% RH**
EW-710 Epoxy Wet-Set: **90% RH**

applicable OSHA standards.

CONCRETE SUBSTRATES

All concrete must have a minimum compressive strength of 3500 PSI and be prepared in accordance with ASTM F710. When flooring is being installed

Adhesive MVER Limits

MS-700 Modified Silane: **10 lbs.**
EW-710 Epoxy Wet-Set: **6 lbs.**

directly over concrete, concrete surfaces that have an ICRI Concrete Surface

Profile (CSP) over 4 should be flattened with a self-leveling underlayment or a patch to prevent imperfections from telegraphing through flooring materials. On or below grade concrete must have a permanent, effective moisture vapor retarder installed below the slab.

New or existing concrete substrates on all grade levels must be tested in accordance with ASTM F2170, using in situ Probes, to quantitatively determine the amount of relative humidity no more than one week prior to the installation.

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. Install The MM-100 per technical data sheet at a rate of 400 sq. ft. per gallon. When installing over concrete as moisture mitigation, material must be applied in two coats. Do not install flooring until moisture testing has been conducted per the appropriate standard and/or moisture mitigation has been installed and is dry to the touch. Do not install flooring in below grade areas when hydrostatic pressure is visible or suspected.

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. Ensure to follow installation procedures and trowel sizes for non-porous substrates.

GYPSUM BASED SUBSTRATES

Gypsum-based substrates must have a minimum compressive strength of 3500 PSI. Gypsum substrates that do not meet this requirement must have one coat

of the Excelsior MM-100 or equivalent installed to improve the tensile/pull-off strength of the substrate. Substrate must be structurally sound and firmly bonded to subfloor. 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 a sealant or primer. Follow all manufacturer's recommendations regarding preparation for resilient flooring installation.

WOOD SUBSTRATES

Wood substrates must be prepared in accordance with ASTM F1482. Wood subfloors should be of double layer construction with a minimum thickness of 1". Crawl spaces beneath wood subfloors shall be in compliance with local building ventilation codes and have at least 18" of cross-ventilated space between the ground and the joists. Wood joists should be spaced on not more than 16" centers. Prior to installation, moisture retardant sheeting with a maximum rating of 1.0 perm must be installed beneath the wood subfloor, overlapped at least 8". For standard installations, use Underlayment Grade plywood with a minimum thickness of 1/4" thick and a fully sanded surface. When floors may be subjected to moisture, use an APA approved exterior grade plywood.

Other wood subfloor materials, such as OSB, lauan, particleboard, chipboard, fiberboard 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. Do not install flooring directly over solid or engineered hardwood flooring without first installing plywood or a suitable cementitious repair product at a minimum thickness of 1/4" over the hardwood flooring.

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. Do not install on a sleeper system (wood subfloor system over concrete) or directly over Sturd-I-Floor panels.

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 material 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. Ensure to follow installation procedures and trowel sizes for non-porous substrates.

EXISTING FLOORING SUBSTRATES

The suitability of existing flooring as a substrate depends on the specific requirements of the adhesive being used to install the material. As such, refer to the adhesive requirements for existing flooring substrates and ensure all adhesive requirements and guidelines are followed.

RADIANT HEATING SUBSTRATES

Recycled rubber flooring products are not recommended for use over radiant heating systems.

4. 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" wide 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 and moving cracks or voids) wider than 3/64". Do not install flooring directly over any expansion

joints or cracks wider than 3/64".

All expansion joints should have a suitable expansion joint covering system installed to allow expansion joint to freely move. To treat expansions joints where an expansion joint covering system can't be installed or to treat through cracks (depth at least 75% of the thickness of the concrete), chase joint or crack with a suitable saw or grinder and open to a minimum width of 1/4". Be sure to clean all dust, dirt and debris from crack. Joints and cracks should then be sealed with a suitable, elastomeric caulk (such as Ardex Ardiseal Rapid Plus, Mapei P1 SL or equivalent) designed for use in expansion joints. Install a closed-cell backer rod at prescribed depth and follow caulk manufacturer's instructions for installation. Ensure surface is troweled flush with surface of concrete.

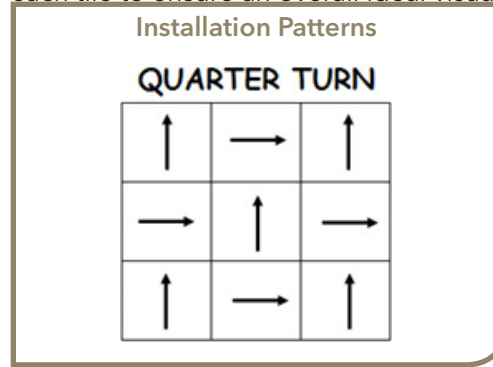
To treat other cracks and voids (such as control cuts, saw-cut joints and surface cracks) over 3/64", chase joint or void with a suitable saw or grinder and clean all dust, dirt and debris from crack. Fill entire crack with a rigid crack filler (such as Ardex Ardifix, CMP CM10 or equivalent) designed for use in control or saw-cut cuts. Follow material manufacturer's instructions for installation. Ensure surface is troweled flush with surface of concrete.

Consult a structural engineer prior to treating any crack or joint, especially those that may affect structural integrity (such as expansion joints). Review all manufacturer installation instructions and/or consult manufacturer technical staff for all crack or joint filling products prior to treating joints and cracks.

5. FLOORING INSTALLATION

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. When installing non-vulcanized tiles, ensure installation area is at least 20 feet from entryways. 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. Prior to installation, confirm material installation pattern and direction per design specifications or work order. Due to the nature of the Rop-cord and its nominal dimensions Rop-cord tiles should be installed in a quarter turn pattern leaving a 1/16" gap around each tile to ensure an overall ideal visual



appearance.

Inspect and dry lay all tiles before installing 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. Square the room using the 3-4-5 squaring rule or similar method to ensure acceptable installation and establish initial installation starting line. Dry-lay several tiles to establish the best layout for the installation area and facility and ensure equal tile sizes around the perimeter. Allow a 1/8" gap around the entire

Adhesive Coverage Rates (Per Gallon)		
Adhesive	Porous	Non-Porous
MS-700	135 sq. ft.	160 sq. ft.
	Brushed & Rough Porous	Smooth Porous & Non-Porous
EW-710	120 sq. ft.	135 sq. ft.

perimeter of the room to allow for expansion, ensuring gap is no wider than the trim, wall base or molding to be installed. Cut borders and other specialty pieces to fit snugly against or around walls, thresholds, transition strips, fixtures and other protrusions or accessories. Avoid forcing material tightly against vertical surfaces, as material may buckle.

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).

Replace trowels at recommended intervals to maintain proper trowel ridge and spread rate. Use a pyramid layout when installing tiles to eliminate run-off. Periodically lift material to ensure proper adhesive transfer and ensure adhesive has not surpassed the open time - adhesive should cover 90% of tile. Pay close attention to open times to avoid adhesion issues. This may require installing material in smaller sections.

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.

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.

6. INITIAL MAINTENANCE

Ensure that adhesive has cured for recommended period of time prior to conducting initial maintenance. Remove

any protective coverings prior to cleaning. Ensure all cleaning equipment is thoroughly cleaned and will not transfer dirt or debris to surface of Rop-cord material.

For interior installations, use a high-CFM, high velocity vacuum to clean Rop-cord in order to remove dust, dirt and debris that has collected on the surface. For minor stains, mix 2-4 ounces of Excelsior NC-900 per gallon of clean, potable water and apply to area using a clean towel/rag or a suitable carpet/steam cleaner system. Remove solution using an extractor or steam cleaner. Allow area to dry prior to allowing foot traffic.

For interior installations, use a high-CFM, high velocity vacuum to clean Rop-cord in order to remove dust, dirt and debris that has collected on the surface. For minor stains, mix 2-4 ounces of Excelsior NC-900 per gallon of clean, potable water and apply to area using a clean

Do not use highly concentrated detergents, abrasive cleaners or products that contain bleach, as this may discolor material.

For further information regarding daily or routine maintenance, please consult the product care & maintenance document.

7. FLOORING PROTECTION

Protect newly installed flooring with construction grade paper or protective boards, such as Masonite or Ram Board, to prevent flooring damage, especially by other trades. Limit usage and foot traffic according to the adhesive's requirements. When moving appliances or heavy furniture, protect flooring from scuffing and tearing using temporary floor protection.

All furniture casters must be made of a soft material and must have a contact point of at least 1" in width to limit indentation and flooring damage. All rolling chairs or seating must have a resilient flooring chair pad installed over the finished floor to protect floor covering. All fixed furniture legs must have permanent felt or soft rubber floor protectors installed on all contact points and to reduce indentation. Floor protectors must have a flat contact point of at least 1 sq. in. or 1 in. diameter and must cover the entire bottom surface of the furniture leg.

Ensure all furniture castors and chair legs are clean and free of any dirt and debris. Routinely clean chair castors and furniture legs to ensure that dirt or debris has not built up or become embedded in castors or floor protectors. Replace chair castors and floor protectors at regular intervals, especially if they become damaged or heavily soiled.

Place walk-off mats at outside entrances. Ensure mats are manufactured with non-staining backs to prevent discoloration.

8. WARRANTY

Roppe provides a 5 Year Limited Warranty. For additional information, see associated warranty documents.

Adhesive Traffic Limits	
MS-700 Modified Silane	
Foot Traffic:	8-12 Hours
Heavy / Rolling Traffic:	24-48 Hours
Maintenance:	48 Hours
EW-710 Epoxy Wet Set	
Foot Traffic:	8-12 Hours
Heavy / Rolling Traffic:	24-48 Hours
Maintenance:	48 Hours

towel/rag or a suitable carpet/steam cleaner system. Remove solution an extractor or steam cleaner.

For exterior applications, the Rop-cord can be cleaned with a clean, firm bristle broom and/or a high-CFM vacuum. For minor stains, mix 2-4 ounces of Excelsior NC-900 per gallon of clean, potable water and apply to area using a firm bristle brush. Rinse area using a high pressure water nozzle and clean, potable water

FOR PROFESSIONAL USE ONLY. PLEASE CONSULT ALL ASSOCIATED TECHNICAL DATA SHEETS, SAFETY DATA SHEETS, MAINTENANCE DOCUMENTS AND WARRANTY INFORMATION PRIOR TO INSTALLATION.