



**ADDENDUM #1**  
**RFP NUMBER: 2014049-PT-P**  
**Janitorial Services for Transportation Facilities RFP**

DATE: May 29, 2014

TO: All Potential Offerors

City of Harrisonburg's Janitorial Services for Transportation Facilities RFP (RFP# 2014049-PT-P), is modified as follows:

As part of this addendum, a copy of the sign-in sheet for the Pre-Proposal Site Visit on May 28, 2014 at 1:00pm is attached at the end of this document (Attachment A). All information provided below was provided at this meeting.

The City is in the process of hiring a Facilities Manager, who will start Monday, June 2, 2014 and will eventually take over as Contract Administrator of this contract.

The estimated move-in date to move into the new administration building will be June 9, 2014. An auction of surplus items will be held June 11, 2014 at 1:00pm at the old administration building. Upon completion of the move and liquidation of the surplus property, the old administration building will be torn down and the space will be filled in with dirt, to become a parking area.

The new facilities must be taken care of from the beginning of move-in. Federal Transportation Administration (FTA) funds were received for this building, and that means that they may inspect at any time, so it is important to show it is well taken care of.

Approximately 160 to 170 individuals are employed by the Harrisonburg Department of Public Transportation (HDPT). HDPT operation during the busiest time, when James Madison University (JMU) is in session, runs from 6:00am to 6:00pm during the week and from 6:30am to 2:15am on weekends. Christmas time is the slowest time of the year for HDPT and is usually the "catch-up" time. During the time of year when snowy weather hits, HDPT is responsible for keeping the parking lots clean at the facility. HDPT still operates when JMU or the school system declares a snow day.

The first floor space in the administration building is mostly for daily operations and will hold the most traffic in the building. The spaces utilizes retired recycled rubber and also sequel rubber cork, which will not need waxing, as well as sealed concrete, which is utilized in the highest traffic areas.

Questions & Answers

1. *Question:* Will the City license or certify the vendor or individual to operate the scrubber that is provided?

*Answer:* No. There will be video training available, but the City will not license or certify. It is not a rideable scrubber machine.

2. *Question:* Will you provide information on the materials used in the flooring.

*Answer:* Yes, as part of this addendum, you will see attached two documents pertaining to information on both the retired recycled rubber flooring, sequel rubber cork flooring and also the sealed concrete flooring, as well as the care instructions for each (Attachment B). The concrete flooring should not need any special care, unlike the other two flooring types. The standard cleaning process used for typical concrete floors is acceptable. The retired recycled rubber is used on the main (first) level of the administration building in a total of 2,445 square feet of space. It is also used on the second level of the administration building in a total of 3,126 square feet of space. The sequel rubber cork is only used on the second level of the administration building in the corridor and also the Admin Reception area, for a total of 786 square feet of space.

3. *Question:* How many floor mats are there in the administration building?

*Answer:* Not many. Nearly all of the mats are built-in to the floors. Currently, the floor mats in the old facility are replaced weekly by Unifirst. At this time it has not been decided how many floor mats will be in the new administration building, if any at all.

4. *Question:* What will be the flooring in the elevator in the administration building?

*Answer:* It will be the recycled rubber material.

5. *Question:* Is there a janitorial closet on the second floor of the administration building?

*Answer:* No, there is no janitorial closet on the second floor. Only the janitorial closet on the first floor is available.

6. *Question:* What spaces will need to be cleaned in the maintenance building?

*Answer:* Everywhere except the wash bays, the maintenance bays, and the NAPA parts rooms (both first and second levels). The mechanics are expected to keep their own bays clean. Anywhere in the facility that is common area, as indicated by the yellow paint strips, will be expected to be kept clean by the successful vendor. This includes, but is not limited to, the areas in between the maintenance bays, the stairway up to the second level conference room, the lunch room and kitchen area, the bathrooms and locker rooms, custodial closet, uniform storage area, reference center, Maintenance Supervisor office, Assistant Supervisor office, and equipment storage area. A diagram of this space is attached to this addendum showing the layout, dimensions and spaces that will need to be cleaned and maintained in the maintenance building (Attachment C). All spaces colored in green on this diagram are expected to be cleaned and maintained by the successful vendor. Attachment E is a diagram from Shockey (1-A101) which will help give dimensions and measurements of this space.

7. *Question:* How many trash cans will there be in the maintenance building?

*Answer:* We are planning to have about 15 to 20 of the 55-gallon trashcans for this facility.

8. *Question:* How will the used parts be disposed of in the maintenance building?

*Answer:* Disposal of the parts is handled by the City. All parts go into a container and the City sells these parts. The successful vendor will not need to empty this container or dispose of any used parts.

9. *Question:* How much cardboard does the parts room in the maintenance building get rid of daily?

*Answer:* It is never more than one (1) 55-gallon trash bin, and generally always less than this. All of this cardboard can go in the dumpster out front of the maintenance building.

10. *Question:* What is the estimated start date for the cleaning contract to begin?

*Answer:* As soon as possible upon award.

11. *Question:* Will the vendor be responsible to provide the hand towels in the maintenance facility break room?

*Answer:* No. The City will provide and maintain our own supplies for items such as toilet paper dispensers, paper towel dispensers, soap dispensers, etc. The successful vendor will only be responsible for providing all of the cleaning chemicals and materials used for execution of this contract.

12. *Question:* Can you provide the square footage of the maintenance facility that will need to be cleaned? The RFP only gives the gross square footage for the entire building.

*Answer:* See Attachment C for this diagram. We have also provided a diagram of the administration building (Attachment D).

**\*\*NOTE: Due to the size of the files, Attachments C, D & E to this Addendum #1 will be posted as separate documents from this addendum cover sheet.**

All other requirements, terms and conditions of the RFP remain unchanged.

Addendum page must be signed and returned with your proposal to acknowledge receipt of this addendum.

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Authorized Signature

By: Pat Hilliard, CPPB  
Purchasing Agent





## Submittal Cover Sheet

**Date:** 12/03/2013  
**Submittal Number:** 096229.01  
**Package Number:**  
**Arch Spec Section:** 096229  
**Revision Number:** 0  
**Description:** Cork Flooring: Specs, Installation, Maintenance  
**Discipline:** FLOORING

**Project Name:** HARRISONBURG D.P.T.-  
 ADMINISTRATION BLDG  
**Job Number:** 947300

### Responsible Parties:

**Subcontractor:** Stafford Systems, Inc.  
 9107 Industry Drive Unit O  
 Manassas Park, VA 20111  
 000-000-0000  
 000-000-0000

### Submittal Items:

<u>Item No.</u>	<u>Item Description/Notes</u>	<u>Type</u>	<u>Action</u>	<u>Subcontract</u>		<u>Architect</u>	
1	Cork Flooring: Specs, Installation, Maintenance	Prod. Data	AN	Date Due:	11/27/2013	Date to:	12/03/2013
				Date Received:	11/27/2013	Date Due:	12/17/2013
				Date Sent to Sub:	12/10/2013	Date Received:	12/10/2013

**Submittal Notes-Contractor:** Approved as Noted: Refer to RNL's Comments

**Submittal Notes-Architect:**

## SUBMITTAL

Date: 12/09/2013  
 Submittal No.: 096229.01  
 Project Name: HDPT  
 RNL Project No.: 3184.01  
 Construction Manager: Bill Thomas  
 Submitting Contractor: Howard Shockey & Sons  
 Description: Cork Flooring - Admin Bldg

RNL DESIGN, Inc.	
<input type="checkbox"/> APPROVED	<input checked="" type="checkbox"/> APPROVED AS NOTED
<input type="checkbox"/> REJECTED	<input type="checkbox"/> REVISE and RESUBMIT
<input type="checkbox"/> Resubmit Specific Item(S) Noted	<input type="checkbox"/> Transmitted with No Review Made
<p>Actions taken by RNL Design and/or its consultants with respect to this Submittal are only for general conformance with the design concepts of the Project based upon the Contract Documents. In all respects, RNL Design's actions are subject to the terms and conditions of its contract with its Client. Notations, "corrections" or comments on the Submittal(s) do not modify the obligations of the contractor or its subcontractors from those set forth in the Contract Documents. Contractor shall field verify, confirm and correlate all dimensions, sizes and tolerances before construction or installation of any component or assembly begins. Unless otherwise specifically noted on the Submittal, all fabrication, installation and construction means, methods, techniques, sequences, schedules and procedures remain solely the responsibility of the contractor. Contractor remains solely responsible for job site safety and all safety precautions and procedures. Notwithstanding anything else to the contrary, RNL Design by reviewing this Submittal does not assume professional responsibility for any design or work product (including but not limited to its technical accuracy or professional competency) provided by contractor or owner on a "design build" or "performance specification" basis. RNL Design provides no warranties, express or implied.</p>	
By: Jin Soo Park	Logged by: Jin Soo Park
Date: 12/09/2013	Date: 12/03/2013

Comments:

**Actual color samples to be submitted under a separate submittal.**  
**Jin Park - RNL**

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**Submittal Notes-Contractor:**

**Submittal Notes-Architect:**

**SHOCKEY**  
THE PARTNER OF CHOICE®

Reviewed  X  
Reviewed as Noted   
Revise & Resubmit

In accordance with our interpretation of the plans and specifications within the scope of our engagement and experience as a General Contractor. Review does not relieve the subcontractor and/or supplier from complying with the contract documents.

Spec. Section – **09 62 29**  
Submittal No. – **09 62 29 .01**

Date: **12/03/13**  
By: **Tyler Beach**  
Howard Shockey

# HARRISONBURG DEPT. OF TRANSPORTATION

## Scope 096229 Cork Flooring Specs., Installation, Maintenance, Warranty

### Architect

RNL Design  
1355 Beverly Rd., Ste. 105-A  
McLean, Va. 22101

### General Contractor

Howard Shockey & Sons, Inc.  
1057 Martinsburg Pike  
Winchester, Va. 22603

### Subcontractor

Stafford Systems, Inc.  
121 N. Madison Rd.  
Orange, Va. 22960

### Supplier

Capri Cork  
209 Bucky Dr.  
Lititz, PA. 17543

### Manufacturer

Capri Cork  
209 Bucky Dr.  
Lititz, PA. 17543



800.492.2613 capricork.com

**RE-TIRE DOWN & DIRTY TECHNICAL DATA****8 MM RECYCLED RUBBER: 10% COLOR****ROLLS: 4' WIDE • TILES: 36" X 36" • INTERLOCKING: 36" X 36" (8.2 SQ FT/TILE)**

Data	ASTM / Standard	Results
Density		60lbs ft <sup>3</sup>
Electrostatic Propensity	AATCC Test Method 134	- 0.4 KV
Thermal Conductivity	C-518 (k value)	1.6296 BTU/in/hr-ft <sup>2</sup> -°F
Thermal Resistance	C-518 (R value)	0.096 h/ft <sup>2</sup> -°F/ BTU <sup>-1</sup>
Coefficient of Friction	C-1028	.83 Dry - .98 Wet
Coefficient of Friction	D- 2047	> 1.00 Dry
Tensile	D-412	213.6 psi
Compression Set	D-395B	8.4%
Shore Hardness A Durometer	D-2240	60 +/- 5
Abrasion Resistance	D-3884	.47g - 0.69% loss
VOC Compliance	D-5116 (modified)	complies
Flexibility	F-137	Passes 6mm Mandrel
Electrical Resistance	F-150	call for test results
Chemical Resistance	F 925 (5min & 24hr test results below)	No change
Static Load	F-970 (400 lbs)	.001"
STC	E-90 / E-413	54 dB
IIC	E-492 / E-989	56 dB
CA section 01350 & CHPS		pass
<b>TOLERANCES</b>		
Width		+/- 1/4"
48" rolls		Cut at 48.5"
Thickness		+/- .020
36" x 36" Tiles		+/- .078

**ASTM F 925 Chemical Resistance (5 min. and 24 hour results):**

5% Ammonia – No Change	5% Phenol – No Change
Bleach – No Change	Gasoline – No Change
5% Acetic Acid – No change	Sulfuric Acid – No Change
70% Isopropyl Alcohol – No Change	Kerosene – No Change
Mineral Oil – No Change	Olive Oil – No Change
5% Hydrochloric Acid – No Change	5% Sodium Hydroxide – No Change

Granulate: EDPM  
 Black: 8/16 SBR  
 Binder: Urethane

**FloorScore® certified product and contributes to LEED.**

Skive/Knife marks on product is an inherent characteristic of recycled rubber and are not to be viewed as a reason for rejecting product. Every effort is made to offer consistency in size, color and density within a lot. Slight variations are possible from lot to lot.

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6/19/2013

Document: RT403DD



## MSDS RE-TIRE Recycled Rubber

**CHEMICAL NAME:** DIPHENYLMETHANE DIISOCYANATE (MDI) MODIFIED

**TRADE NAMES:** RE-TIRE SHADES OF BLACK, RE-TIRE KALEIDOSCOPE, RE-TIRE THE BASICS

**HAZARDOUS INGREDIENTS:** NA

### PHYSICAL DATA:

BOILING POINT:	NA
SPECIFIC GRAVITY (H2O=1)	0.9
VAPOR PRESSURE (mg Hg)	NA
PERCENT, VOLATILE BY VOLUME	(%)
VAPOR DENSITY	NA
EVAPORATION RATE	NA
SOLUBILITY IN WATER	NA
APPEARANCE AND ODOR	BLACK/ WITH SLIGHT ODOR

### SPECIAL PROTECTION INFORMATION:

RESPIRATORY PROTECTION	NA
VENTILATION LOCAL EXHAUST	NA
MECHANICAL	NA
PROTECTIVE GLOVES	NA
EYE PROTECTION	NA
OTHER PROTECTIVE EQUIPMENT	NA

### SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE  
AVOID CONTACT WITH FLAME, AND EXCESSIVE RADIANT HEAT

### FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED)	NA
FLAMMABLE LIMITS	NA
EXTINGUISHING MEDIA	CO <sub>2</sub> , DRY CHEMICAL, COPIOUS
SPECIAL FIRE FIGHTING PROCEDURE	WEAR RESPIRATOR TO AVOID SMOKE INHALATION
UNUSUAL FIRE AND FIGHTING PROCEDURE	NONE

### HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE	NONE ESTABLISHED
EFFECTS OF OVEREXPOSURE	NONE ESTABLISHED
EMERGENCY + FIRST AID PROCEDURES	INGESTION CALL PHYSICIAN

### REACTIVITY DATA

STABILITY	STABLE
CONDITIONS TO AVOID	

## MSDS RE-TIRE Recycled Rubber

HAZARDOUS DECOMPOSITION PRODUCTS: CO<sub>2</sub>, CO, NITROGENOUS COMPOUNDS  
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

SPILL OR LEAK PROCEDURES NA

WASTE DISPOSAL METHOD APPROVED LANDFILL



## SEQUEL RUBBER CORK TILES TECHNICAL DATA

Data	ASTM / Standard	Results
Composition of material	F-1344, certificate of compliance	passes
Taber Abrasion	D-3389	< 1 gm/1000 cycles
Static Coefficient of Friction	D-2047	0.85 dry 0.85 wet
Hardness Shore A	D-2240	90 min
Electrical Resistance	F -150	call for results
Optical Smoke Density	E-662 Flaming and Non flaming	< 450, passes
Size & Squareness	F-2055 Size $\leq .018"$	passes
	Squareness $\leq .005"$	passes
Thickness	F -386	0.130 inch
Quality of cut	F-511 (0.005" max.)	passes
Dimensional Stability	F-2199	0.010 (0.08% loss)
Heat Stability	F -1514	Avg. Delta E less than 8
Static Load	F-970	.002"
	F-970 (modified - 1000 psi)	.005"
Fire (Critical Radiant Flux)	648	Class 1
Electrostatic Propensity	AATCC 134-06	Pos 3.0 KV
IIC	E-989	53 dB
STC	E-413	55 dB
CA section 01350 and CHPS		passes

### Chemical Resistance: After 24 hours

5% Ammonia – No Change	5% Phenol – No Change
Bleach – No Change	Gasoline – Slight Change
5% Acetic Acid – No Change	Sulfuric Acid – Slight Change
70% Isopropyl Alcohol – No Change	Kerosene – Moderate Change
Mineral Oil – Slight Change	Olive Oil – Slight Change
5% Hydrochloric Acid – Slight Change	5% Sodium Hydroxide – Slight Change

Standard tile: 19 11/16" X 19 11/16" (50 cm x 50 cm)

Standard thickness: 3 mm (nominal 1/8")

Shade variations due to the cork content are possible. Variations from lot to lot are possible.



**RE-TIRE RECYCLED RUBBER TILES  
INSTALLATION INSTRUCTIONS**

If Capri approved substrates, adhesives, finish/coatings are not used when installing Re-Tire recycled rubber flooring; the Capri warranty is null and void.

No substrates other than those listed and described in these instructions are acceptable. For installation over access flooring contact Capri for specific installation instructions.

Tiles Storage: Material should be stored on original pallet in climate controlled warehouse.

Recommended Adhesive: Capri AR4000 adhesive (available from Capri).

Alternate Adhesive: WAKOL PU 225 adhesive for use with WAKOL PU 280 moisture barrier (available from Capri).

Recommended Trowel notch size:

**4, 6, 8, 9 mm and thicker**

1/16" x 1/16" x 1/16" - V notch trowel.



1/16"D x 1/16"W x 1/16"SP

Coverage:

Capri AR4000 = 125sq.ft. / gal. (625sq.ft. / 5 gal. unit)

Or

WAKOL PU 225 = 145sq.ft. / gal.

**3.2mm thickness**

1/16" depth x 1/32" width x 1/32" space - U notch trowel



1/16"D x 1/32"W x 1/32"SP

Coverage:

Capri AR4000 = 200 sq.ft. / gal. (1,000sq.ft. / 5gal. unit)

Or

WAKOL PU 225 = 145 sq.ft. / gal.

**IMPORTANT – BEFORE ANY INSTALLATION IS STARTED BE SURE TO:** Verify the product type, size, thickness, color. Check for any visual defects.

Skive / Knife marks on product are an inherent characteristic and are not considered a defect.

Re-Tire is made from recycled materials and variations in shade and color chip dispersion are inherent. Any suspect defective material must be brought to the attention of your material provider prior to installation. **NO CLAIMS WILL BE ACCEPTED AFTER THE MATERIAL HAS BEEN INSTALLED.**

Installation of the rubber flooring will be only as good as the substrate it goes over. If substrate is uneven, rubber will not lay flat. **WET, GREASY SUBSTRATE IS THE MAJOR CAUSE OF BONDING FAILURE.**

**PREPARATION OF SUBSTRATE:**

For detailed substrate preparation instructions please refer to Capri document CC005.

All substrates should be cleaned, dry, smooth, flat, and structurally sound. Substrate should be free of dust, solvent, paint, wax, oil, grease, sealers, old adhesives or other materials according to ASTM F 710. Before installing any materials make sure that the area is completely dry and level 3/16" in 10 feet. For concrete perform calcium chloride and/or relative humidity testing and check for pH level. Moisture should not exceed 3 lbs/ 1000 sq.ft. (Calcium chloride) and/or should be less than 75% (relative humidity) and pH level should be 7-10.

**If moisture exceeds the requirement, DO NOT PROCEED with installation without first contacting the Capri technical department. Capri can offer solutions for moisture problems.**

**Concrete floors:** If floor is uneven, correct it with a Portland based patching compound. If floor is new, be sure it is completely dry (several months curing is preferred). Sweep area clean. Slab should adhere to ASTM F1869 for water vapor emissions Re-Tire ASTM F 2170 for relative humidity. Cracks, expansion joints and uneven areas should be filled with a material intended for that purpose.

**Wood floors:** Wood substrates shall be double layer construction with a minimum total thickness of one inch (1"), suspended at least 18" above the ground or above a concrete slab, with adequate cross ventilation. Crawl spaces shall be insulated and protected by a vapor barrier. If needed, floor may be covered with 1/4" or thicker A.P.A. approved underlayment plywood.

**JOB SITE CONDITIONS AND MATERIAL ACCLIMATION:** All trades must be out of the area before installation begins. After installation is complete if other trades will work in the area, appropriate protective cover should be placed on the floor prior to any work.

Area where flooring is to be installed should be temperature controlled between 65° and 75° F for 48 hours prior to, during and after installation. The material must be placed in the area to be installed 24 hours minimum before starting installation. It is recommended that tiles are dry laid at this phase to allow the tiles to acclimate best, allow tiles to relax from shipping, and allow for visual inspection.

An adhesive bond test should be completed in several locations across the floor. Glue down 2' x 2' pieces of material with recommended adhesive and trowel and let set for 48 hours before trying to remove. It should be relatively difficult to pull tile up and there should be adhesive on the floor and the tile.

Once the substrate has been properly prepared, the rubber has acclimated and relaxed, visual inspection and adhesive bond test is completed, installation can begin.

# RE-TIRE RECYCLED RUBBER TILES INSTALLATION INSTRUCTIONS

## INSTALLATION:

RE-TIRE is made from recycled materials. Slight variations of shades and dispersion of color chips is inherent.

**RE-TIRE TILES HAVE DIRECTIONAL ARROWS printed on the back of the tiles. TILES NEED TO BE INSTALLED WITH THE ARROWS pointing IN THE SAME DIRECTION.**

Capri recommends that RE-TIRE tiles be installed in an "Ashlar/Brick-Lay" pattern

It is important to establish your reference (chalk) lines and determine lay out to avoid small pieces at walls and transitions.

1. Acclimated tiles should be "DRY LAID" with all arrows pointing in the same direction for at least 12 hours before installation. This allows the tiles time to relax.

It is the installer's responsibility to blend shade variations and any questionable materials should be reported before installing.

2. Once relaxation period is complete, pick up tiles in the area where you will start installing. Take care to keep tiles in order and the direction arrows pointing in the same direction.

3. Apply adhesive using the trowel recommended for flooring thickness.

Open-Time will vary according to air and surface temperature, relative humidity and porosity of substrate. High temperatures and high humidity will cause the adhesive to set up quickly. Low temperatures and low humidity will cause adhesive to cure at a slower rate. It is up to the installer to monitor on site conditions and adjust accordingly. **DO NOT LET ADHESIVE SKIM OVER.**

**Ensure proper adhesive transfer by periodically lifting a section of material after it has been rolled. You should achieve at least 95% transfer.**

Use a new trowel for each new pail of adhesive, **DO NOT RE-NOTCH THE TROWEL.**

4. Install the first row of tiles, closely following one of the reference (chalk) lines.

Tiles should be laid in place naturally so as to insure good contact with close, even joints. **DO NOT EXERT PRESSURE** on the tiles.

5. Roll the starting row with a 75 lb sectional roller (a roller heavier than 75 lbs may cause tiles to stretch). Use hand roller in areas where larger roller cannot reach. The object is to establish the first course of installed tiles across the room, making sure this course is properly set and even before continuing.

- If starting from the center of the room:

When the first course is completely installed and rolled, start the second course on one side of the starting course and continue the installation. The third course installed should be on the opposite side of the starting course. By alternating sides from the starting course, maximum time is allowed for the adhesive to "set up" before installer traffic is forced onto the tiles.

- If starting off a wall:

When the first course is completely installed, cut to walls, and rolled, start the second course and continue working your way out of the room.

6. Install the second row of tiles starting midway between the joint of the first two tiles to establish a "Ashlar/Brick-Lay" pattern. Installing by this method eliminates pressure on the tile corners and results in a better match at the seams.

During the installation of the second, third and subsequent courses it may be necessary to work on the newly installed tiles. Use a kneeling board to work on newly installed tiles. Always be alert for tiles that may have been moved out of place; set them gently into place.

7. Install as many full tiles as the adhesive spread will allow.

8. Avoid traffic on the newly installed tiles. Adhesive is slippery when first spread and the tiles will shift position even if only slightly disturbed.

10. Roll the floor with a 75 lb. 3 section roller as soon as possible after laying to insure proper transfer of adhesive to the back of the tile. Roll the length and the width of the course. Be sure to roll the floor while the adhesive is still wet. **FAILURE TO ROLL THE TILES WHILE ADHESIVE IS STILL WET MAY CAUSE BONDING FAILURE.**

11. Use hand roller in areas where larger roller can not reach, as well as on all seams after the floor has been rolled.

12. If tiles do not meet perfectly and need to be held together, blue tape can be used. Do not use duct tape or any other tape as they may leave a residue. Remove blue tape after adhesive has set (approximately 8-12 hours). Failure to remove blue tape in this time period may leave residue which could be difficult to remove.

If adhesive comes up in the seams, immediately clean adhesive off rubber with a damp rag and denatured alcohol. Mineral Spirits can also be used but caution should be taken as it will leave a residue behind and may be difficult to remove during the cleaning process. Adhesive that is allowed to cure on rubber will be difficult to remove and may permanently discolor the rubber.

If there are edges that are not staying down they can be weighed down overnight.

**ALLOW NO FOOT TRAFFIC or ROLLING LOADS FOR AT LEAST 24 HOURS.** Indentations in adhesive which occur prior to the adhesive curing will be permanent.

## POST INSTALLATION REQUIREMENTS:

**Initial cleaning and application of finish should not take place until 24 hours after installation of Re-Tire.**

The initial cleaning of the new floor is very important. Sweep or vacuum the floor to eliminate debris, dirt, dust, or other items that could damage the floor. Protect floor from normal construction traffic and during the moving of furniture and heavy equipment.

**Re-Tire Basics, Kaleidoscope and Medley installations require job-site applied finish coats, for the Re-Tire Shades of Black colors, finish coats are optional.** In fitness areas with free weights, dropped weights may mar the finish. Any issues on the finish created by dropped free weights or dragged sports equipment are not considered a manufacturing defect of either the rubber or the finish.

## RE-TIRE RECYCLED RUBBER TILES INSTALLATION INSTRUCTIONS

There are 2 approved finish choices for RE-TIRE: Hilway Direct Plus Mop on Acrylic Floor Finish and Dr. Schutz Water-based Urethanes (available from Capri).

Please refer to Capri document RT406A for Initial Cleaning and Finish Application Instructions.

### REGULAR MAINTENANCE PROGRAM:

A regular maintenance program is essential for keeping your floors beautiful for years/decades. The frequency of cleaning will depend on the amount of traffic and type of usage.

Complete cleaning instructions are available at [capricork.com](http://capricork.com) in the document library.

### FLOOR CARE BASICS:

- Vacuum or sweep regularly (at least once a week). Dirt and grit that is left on the floor will abrade the floor.
- Remove spills/liquids immediately.
- Spot clean with a damp cloth as needed.
- Use mats at exterior doors. Do not allow moisture to collect under mats.
- Use protective furniture footings/pads (available from [1877floorguy.com](http://1877floorguy.com)). Use chair mats/pads under desks/workstations or other areas where chairs with casters are used, as casters can damage finish. Under fitness/heavy equipment legs/feet use appropriate floor protectors to dissipate the heavy point loads.
- Flooring must be protected when moving heavy equipment, appliances or furniture.
- High heels can damage flooring and finish coats.
- Use only cleaners recommended by Capri.

For questions or clarification about these instructions, call Capri Tech department at 800.492.2613.



## SEQUEL RUBBER/CORK TILES INSTALLATION INSTRUCTIONS

If Capri approved substrates, adhesives and finishes/coatings are not used when installing Sequel; the Capri warranty is null and void.

No substrates other than those listed and described in these instructions are acceptable. These substrate requirements also apply when Sequel is being installed over access flooring.

Storage: Material must be stored in climate controlled warehouse.

**IMPORTANT – BEFORE ANY INSTALLATION IS STARTED BE SURE TO:** Verify the product type, size, thickness, color. Check for any visual defects.

The natural cork content in Sequel may cause shade variations from tile to tile: tiles **MUST** be “shuffled” from several boxes during installation.

Sequel tiles have directional arrows on the back. Tiles must be installed with arrows pointing in the same direction.

Any suspect defective material must be brought to the attention of your material provider. **NO CLAIMS WILL BE ACCEPTED AFTER THE MATERIAL HAS BEEN INSTALLED.**

Installation of the rubber flooring will be only as good as the substrate it goes over. If substrate is uneven, rubber will not lay flat. **WET, GREASY SUBSTRATE IS THE MAJOR CAUSE OF BONDING FAILURE.** More complete Substrate Preparation Instructions (Document #CC005) are available on the website, [www.capricork.com](http://www.capricork.com).

### PREPARATION OF SUBSTRATE:

For detailed substrate preparation instructions please refer to Capri document CC005.

All substrates should be cleaned, dry, smooth, flat and structurally sound. Substrate should be free of dust, solvent, paint, wax, oil, grease, sealers, old adhesives or other materials according to ASTM F 710. Before installing any materials make sure that the area is completely dry and level 3/16" in 10 feet, do calcium chloride and/or relative humidity testing and check for pH level. Moisture should not exceed 3 lbs/ 1000 sq ft and/or relative humidity should be less than 75% and pH level should be 7-10.

If moisture exceeds the requirement, **DO NOT PROCEED** with installation without contacting the Capri technical department. Capri can offer solutions for moisture problems.

**Concrete floors:** If floor is uneven, correct it with a Portland based patching compound. If floor is new, be sure it is completely dry (several months curing is preferred). Sweep area clean. Slab should adhere to ASTM F1869 for water vapor emissions and/or ASTM F 2170 for relative humidity. Cracks, expansion joints and uneven areas should be filled.

**Wood floors:** Wood substrates shall be double layer construction with a minimum total thickness of one inch (1"), suspended at least

18" above the ground or above a concrete slab, with adequate cross ventilation. Crawl spaces shall be insulated and protected by a vapor barrier. If needed, floor may be covered with 1/4" or thicker A.P.A. approved underlayment plywood.

**JOB SITE CONDITIONS AND MATERIAL ACCLIMATION:** All trades must be out of the area before installation begins. After installation is complete, if other trades will work in the area, appropriate protective cover should be placed on the floor.

Area where Sequel is to be installed should be temperature controlled between 65° and 75° F, and 45% to 60% relative humidity, for 72 hours prior to, during and after installation. The tiles and adhesive must be placed in the area to be installed 72 hours before starting installation to properly acclimate.

An adhesive bond test should be completed in several locations across the floor. Glue down full tiles with recommended adhesive and trowel and let set for 48 hours before trying to remove. It should be relatively difficult to pull tile up and there should be adhesive on the floor and the tile.

Once the substrate has been properly prepared, the Sequel has acclimated and the adhesive bond test is completed installation can begin.

### INSTALLATION:

Sequel must be dry laid prior to installing with adhesive. After the entire floor has been dry laid, view the room under normal lighting conditions and inspect for color acceptance and any defects that might occur. It is the installers' responsibility to bring any discrepancy to the appropriate person before adhesive installation begins.

There are two approved adhesive options, RC1000 and WAKOL PU225 for Sequel. (Both are available from Capri).

**RC1000** is water-based adhesive for general commercial areas

Trowel: 1/16"x1/16"x1/16" V notch  
Spread rate: 360 sq ft / 2.4 gallon container  
Working Time: Approx. 20 minutes

**OR**

**WAKOL PU225** is a 2 component urethane for heavy traffic and rolling loads

Trowel: 1/16"x1/16"x1/16" V notch.  
Spread rate: 145 sq ft / 1 gallon container  
Working time: Approx. 30-40 minutes

Environmental conditions, (i.e. temperature, humidity, direct sunlight) will affect open and working time for both adhesives.

### Installation Procedure for RC1000:

- Stir adhesive well before use.
- Spread adhesive evenly and uniformly using the recommended trowel. Do not spread more adhesive than you can cover with flooring within the open time.

## SEQUEL INSTALLATION INSTRUCTIONS

1. Place tiles in adhesive tightly together but do not push or slide together as this will cause adhesive to seep through seams. If this occurs, either too much adhesive is being used or tiles are being pushed or slid together.

2. Periodically pick up a tile during installation to make sure proper adhesive transfer to assure an adhesive transfer of minimum 90% is being made. If you need to work on top of tile, use a kneeling board.

3. Within 20 minutes, roll the floor with a 3 section 75 lb roller. Repeat rolling again at 60 minutes. Roll the floor in two directions. Hand roll all areas which cannot be reached with the large roller. Any uneven joints can be weighed down overnight.

4. Adhesive on tiles or seams must be removed when adhesive is still wet. Use water. Removal of dry adhesive might cause damage to the tile.

5. No traffic for 24 hours as traffic and rolling loads can cause permanent indentations in adhesive which is not fully cured.

OR

### Installation with WAKOL PU 225:

- Mix both components (A and B) thoroughly for a minimum of 3 minutes using a power mixer. Keep mixing until a homogenous color is achieved.
- Spread adhesive evenly and uniformly using the recommended trowel.

1. Place tiles in adhesive tightly together but do not push or slide together as this will cause adhesive to seep through seams. If this occurs, either too much adhesive is being used or tiles are being pushed or slid together.

2. Periodically pick up a tile during installation to make sure proper adhesive transfer to assure an adhesive transfer of minimum 90% is being made. If you need to work on top of tile, use a kneeling board.

3. Within 30 minutes, roll the floor with a 3 section 100 lb roller. Repeat rolling again at 60 minutes. Roll the floor in two directions. Hand roll all areas which cannot be reached with the large roller. Any uneven joints can be weighed down overnight.

4. Adhesive on tiles or seams must be removed when adhesive is still wet. Use mineral spirits or denatured alcohol. Removal of dry adhesive might cause damage to the tile.

5. No traffic for 24 hours as traffic and rolling loads can cause permanent indentations in adhesive which is not fully cured.

### POST INSTALLATION REQUIREMENTS:

**Initial cleaning and application of finish should not take place until 36 hours after installation.**

The initial cleaning of the new floor is very important. Sweep or vacuum floor to eliminate debris, dirt, dust, or other items that could damage the floor. Protect floor from normal construction traffic and during the moving of furniture and heavy equipment.

**All Sequel installations require a job-site applied finish coat.**

**There are 2 approved finish choices for Sequel: Hilway Direct Mop on Acrylic Floor Finish and Dr. Schutz Water-based Urethanes (all available from Capri).**

Please refer to Capri document SQ606A for Initial Cleaning and Finish Application Instructions.

### REGULAR MAINTENANCE PROGRAM:

A regular maintenance program is essential for keeping your floors beautiful for years/decades. The frequency of cleaning will depend on the amount of traffic and type of usage.

Maintenance instructions (document SQ606) are available at [capricork.com](http://capricork.com) in the document library.

### FLOOR CARE BASICS:

- Vacuum or sweep regularly (at least once a week). Dirt and grit that is left on the floor will abrade the floor.
- Remove spills/liquids immediately.
- Spot clean with a damp cloth as needed.
- Use mats at exterior doors. Do not allow moisture to collect under mats.
- Use protective furniture footings/pads (available from [1877floorguy.com](http://1877floorguy.com)). Use chair mats/pads under desks/workstations or other areas where chairs with casters are used as casters can damage finish. Under heavy equipment/appliances legs/feet use appropriate floor protectors to dissipate the heavy point loads.
- Flooring must be protected when moving heavy equipment, appliances or furniture.
- High heels can damage flooring and finish coats.
- Use only cleaners recommended by Capri.

For questions or clarification about these instructions, call Capri Tech department at 800.492.2613.



## RE-TIRE RECYCLED RUBBER MAINTENANCE INSTRUCTIONS

If Capri approved finishes and cleaners are not used for Re-Tire, the Capri warranty is null and void.

Re-Tire Basics, Kaleidoscope and Medley colors require a job-site applied finish coating for all types of installations. Job-site applied finish is optional on Re-Tire Shades of Black.

In fitness areas with free weights dropped weights may mar the finish. Any issues on the finish created by dropped free weights or dragged sports equipment are not considered a manufacturing defect of either the rubber or the finish. When Shades of Black is installed in sports facilities where spikes or skates will be worn, a finish should not be applied.

There are 2 approved finish choices for Re-Tire: Hilway Direct Plus Mop on Acrylic Floor Finish and Dr. Schutz Water-based Urethanes (all available from Capri).

Regardless of finish applied regular maintenance of Re-Tire is required.

### REGULAR MAINTENANCE OF RE-TIRE: For Re-Tire Finished With Hilway Direct Plus:

#### Daily Cleaning - Mop & Bucket Directions:

1. Sweep the floor to remove all loose soil from the floor.
2. Add 1 ounce of Hilway Direct Plus to 1 gallon of warm water and mop the floor with the solution.
3. The 2 bucket system is highly recommended. – Bucket 1 for the Hilway Direct Plus solution and Bucket 2 for rinsing the mop in clean water so you don't contaminate Bucket 1.
4. Pick up any soil and excess solution with a tightly wrung out cleaning mop.
5. Do not rinse the floor after cleaning.
6. Let the floor air dry completely

#### Daily Cleaning - Automatic Scrubbing Machines:

1. Add 1/4 ounce of Hilway Direct Plus to 1 gallon of warm water.
2. Scrub floor with solution using a white pad at low speed.
3. Trail mop excessive wet areas behind scrubber.
4. Do not rinse the floor after cleaning
5. Let the floor air dry completely

Note: For optimum performance, alternate use of Hilway Direct Plus with the Capri Neutral Cleaner once the desired shine has been achieved for both Mop & Bucket and Automatic scrubbing machines. This is important to prevent build up and having to strip the floor. If build up occurs or the floor becomes dirty from ground in dirt we recommend using Dr. Schutz Stripper (available from Capri).

### For Re-Tire finished with Dr. Schutz urethanes:

1. Sweep or vacuum the floor daily.
2. Spot clean as needed.
3. Clean with Capri neutral floor cleaner (available from Capri).
4. Dilute the cleaner according to cleaner instructions.
5. If a scrubbing machine is used to clean floors, use a white pad at a low speed.

Re-application of finish coats is part of a regular maintenance program. Finishes need to be recoated periodically with frequency being determined by usage.

### RE-COATING / MAINTENANCE COATS

#### For Re-Tire finished with Hilway Direct Plus:

- If stripping is required for Hilway Direct Plus use only Dr. Schutz stripper (available from Capri) and follow manufacturer's instructions.
- Re-apply Hilway Direct following manufacturers' directions for application procedures.

#### For Re-Tire finished with Dr. Schutz urethanes:

Refer to Re-Tire document RT412DS available in the document library on the Capri website: capricork.com or call 800.492.2613.

### FLOOR CARE BASICS:

- Vacuum or sweep regularly (at least once a week). Dirt and grit that is left on the floor will abrade the floor.
- Remove spills/liquids immediately.
- Spot clean with a damp cloth as needed.
- Use mats at exterior doors. Do not allow moisture to collect under mats.
- Use protective furniture footings/pads (available from 1877floorguy.com). Use chair mats/pads under desks/workstations or other areas where chairs with casters are used as casters can damage finish. Under heavy equipment/appliances legs/feet use appropriate floor protectors to dissipate the heavy point loads.
- Flooring must be protected when moving heavy equipment, appliances or furniture.
- High heels can damage flooring and finish coats.
- Use only cleaners recommended by Capri.

For questions or clarification about these instructions, call Capri Tech department at 800.492.2613.



## SEQUEL RUBBER CORK MAINTENANCE INSTRUCTIONS

If Capri approved finishes and cleaners are not used for Sequel, the Capri warranty is null and void.

All Sequel floors have a finish coating applied after installation. The approved finish coatings for Sequel are Hilway Direct Plus acrylic floor finish, and Dr. Schutz Water-based Urethanes (all available from Capri).

Regardless of finish coating applied regular maintenance of Sequel is required.

### REGULAR MAINTENANCE OF SEQUEL:

#### For Sequel Finished With Hilway Direct Plus:

Daily Cleaning - Mop & Bucket Directions:

1. Sweep the floor to remove all loose soil from the floor.
2. Add 1 ounce of Hilway Direct Plus to 1 gallon of warm water and mop the floor with the solution.
3. The 2 bucket system is highly recommended. – Bucket 1 for the Hilway Direct Plus solution and Bucket 2 for rinsing the mop in clean water so you don't contaminate Bucket 1.
4. Pick up any soil and excess solution with a tightly wrung out cleaning mop.
5. Do not rinse the floor after cleaning.
6. Let the floor air dry completely

Daily Cleaning - Automatic Scrubbing Machines:

1. Add 1/4 ounce of Hilway Direct Plus to 1 gallon of warm water.
2. Scrub floor with solution using a white pad at low speed.
3. Trail mop excessive wet areas behind scrubber.
4. Do not rinse the floor after cleaning
5. Let the floor air dry completely

Note: For optimum performance, alternate use of Hilway Direct Plus with the Capri Neutral Cleaner once the desired shine has been achieved for both Mop & Bucket and Automatic scrubbing machines. This is important to prevent build up and having to strip the floor. If excessive build up occurs or the floor becomes dirty from ground in dirt we recommend using Dr. Schutz Stripper (available from Capri) to remove all finish before re-application of new finish.

#### For Sequel finished with Dr Schutz urethanes:

1. Sweep or vacuum the floor daily.
2. Spot clean as needed.
3. Clean with Capri neutral floor cleaner (available from Capri).
4. Dilute the cleaner according to cleaner instructions.
5. If a scrubbing machine is used to clean floors, use a white pad at a low speed.

Re-application of finish coats is part of a regular maintenance program. Finishes need to be recoated periodically with frequency being determined by usage.

### RE-COATING / MAINTENANCE COATS OF SEQUEL:

#### For Sequel finished with Hilway Direct Plus:

- If stripping is required for Hilway Direct Plus use only Dr. Schutz stripper (available from Capri) and follow manufacturer's instructions.
- Re-apply Hilway Direct following manufacturers' directions for application procedures.

Refer to Sequel document SQ612HD in the document library on the Capri website: [www.capricork.com](http://www.capricork.com).

#### For Sequel finished with Dr Schutz urethanes:

Refer to Sequel document SQ612DS available in the document library on the Capri website: [capricork.com](http://capricork.com) or call 800.492.2613.

### FLOOR CARE BASICS:

- Vacuum or sweep regularly (at least once a week). Dirt and grit that is left on the floor will abrade the floor.
- Remove spills/liquids immediately.
- Spot clean with a damp cloth as needed.
- Use mats at exterior doors. Do not allow moisture to collect under mats.
- Use protective furniture footings/pads (available from [1877floorguy.com](http://1877floorguy.com)). Use chair mats/pads under desks/workstations or other areas where chairs with casters are used as casters can damage finish. Under heavy equipment/appliances legs/feet use appropriate floor protectors to dissipate the heavy point loads.
- Flooring must be protected when moving heavy equipment, appliances or furniture.
- High heels can damage flooring and finish coats.
- Use only cleaners recommended by Capri.

For questions or clarification about these instructions, call Capri Tech department at 800.492.2613.



**CAPRI CORK, LLC**  
**LIMITED WARRANTY TERMS AND CONDITIONS**

1. Description of the Product. **Re-Tire Recycled Rubber**
2. Registration for Warranty.

Customer (as defined below) must complete the attached Capri Cork Warranty Registration Form and mail or fax the completed form to Capri Cork, LLC ("Seller") within 90 days of receipt of the Product and after the Product is installed.

To be eligible for replacement under this warranty, Customer must notify Seller in writing sent to 209 Bucky Drive, Lititz, PA 17543 or faxed to 717-627-5007 within ninety (90) days after the Product defect is discovered. Seller reserves the right to inspect the Product claimed to be defective to verify that (i) the alleged defect exists, (ii) the Product was properly installed (if defect is claimed to have occurred after installation), and (iii) none of the exclusionary conditions listed in Section 3 below are present.

3. Product Warranty; Sole and Exclusive Remedy.

Seller warrants that for a period of (10) ten years from the date of shipment by Seller, the Product will be free from defects in workmanship and materials under normal use and service conditions. Seller's warranty shall be available exclusively to the original end-user of the Product ("Customer"). **Seller's liability, and Customer's exclusive remedy under this Warranty, is limited to replacement of the defective Product only, and does not include any costs of labor or otherwise associated with installation or removal of the defective Product or installation of the replacement Product.** If Seller no longer manufactures the particular Product subject to this warranty, Seller reserves the right to substitute another Product that Seller deems to be comparable or superior in its place. Seller's responsibility to replace defective Product under this warranty applies only to the affected area of Product so long as a suitable match (as determined in the sole discretion of Seller) can be supplied. Full replacement or replacement of a greater area than the affected area is at the sole discretion of Seller.

This warranty does not cover Product defects that are caused by, result from or arise in connection with any one or more of the following conditions:

- a. Installation of visibly defective material.
- b. Installation of the Product over non-approved substrates.
- c. Installation of the Product with adhesives other than those that are recommended by Seller.
- d. Application of sealers, finishes or cleaners other than those that are recommended by Seller.
- e. Defects caused by moisture, hydrostatic pressure, or alkali in the substrate.
- f. Improper or inadequate substrate preparation, installation or maintenance.
- g. Damage to the Product when left unprotected during construction or during moving of heavy equipment or furniture.

- h. Damage to the Product and/or its finish from high heels or spikes, inadequate furniture glides or casters.
- i. Exterior installations.
- j. Shade variations after installation.
- k. Fading resulting from UV rays.

This warranty only applies to new, first quality Product, and does not extend to "seconds," "off goods" or any other irregular (non-first quality) flooring materials ("AS IS Products"). Seller makes no warranties whatsoever, express or implied with respect to AS IS Products, including warranties of merchantability or fitness for a particular purpose.

4. Warranty Disclaimer. **THE WARRANTIES SET FORTH IN SECTION 3 ABOVE ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES OR REPRESENTATIONS, EXPRESS OR IMPLIED, ARISING BY LAW OR CUSTOM, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. NO AGENT, SALES REPRESENTATIVE OR DEALER HAS THE AUTHORITY TO INCREASE OR ALTER SELLER'S OBLIGATIONS UNDER THIS WARRANTY.**

5. Limitation of Liability. The aggregate cumulative total liability for which Seller is obligated to pay Customer hereunder, whether for breach of warranty or contract, indemnifications herein, tort (including negligence), or otherwise, shall not exceed the original purchase price of the Product. Seller assumes no liability for labor costs in the installation of the Product claimed to be defective. In no event shall Seller be liable to Customer or any other person for loss of revenue, profit or any consequential, incidental, exemplary or punitive damages directly or indirectly arising from the use of the Products, from breach of any warranty or from any other cause, whether or not Seller has been informed of the possibility of such damages.



**CAPRI CORK WARRANTY REGISTRATION**

Date: \_\_\_\_\_ Invoice # \_\_\_\_\_ Invoice Date: \_\_\_\_\_

Purchaser Name: \_\_\_\_\_ Purchase Date: \_\_\_\_\_

End-User (Consumer) Name: \_\_\_\_\_

Consumer Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Phone: \_\_\_\_\_

Material ordered: \_\_\_\_\_

Installation Completion Date: \_\_\_\_\_

Return to Capri cork via fax (717.627.5007) or email (sales@capricork.com)



**CAPRI CORK, LLC  
LIMITED WARRANTY TERMS AND CONDITIONS**

1. Description of the Product. **Sequel Rubber Cork**
2. Registration for Warranty.

Customer (as defined below) must complete the attached Capri Cork Warranty Registration Form and mail or fax the completed form to Capri Cork, LLC ("Seller") within 90 days of receipt of the Product and after the Product is installed.

To be eligible for replacement under this warranty, Customer must notify Seller in writing sent to 209 Bucky Drive, Lititz, PA 17543 or faxed to 717-627-5007 within ninety (90) days after the Product defect is discovered. Seller reserves the right to inspect the Product claimed to be defective to verify that (i) the alleged defect exists, (ii) the Product was properly installed (if defect is claimed to have occurred after installation), and (iii) none of the exclusionary conditions listed in Section 3 below are present.

3. Product Warranty; Sole and Exclusive Remedy.

Seller warrants that for a period of (10) ten years from the date of shipment by Seller, the Product will be free from defects in workmanship and materials under normal use and service conditions. Seller's warranty shall be available exclusively to the original end-user of the Product ("Customer"). **Seller's liability, and Customer's exclusive remedy under this Warranty, is limited to replacement of the defective Product only, and does not include any costs of labor or otherwise associated with installation or removal of the defective Product or installation of the replacement Product.** If Seller no longer manufactures the particular Product subject to this warranty, Seller reserves the right to substitute another Product that Seller deems to be comparable or superior in its place. Seller's responsibility to replace defective Product under this warranty applies only to the affected area of Product so long as a suitable match (as determined in the sole discretion of Seller) can be supplied. Full replacement or replacement of a greater area than the affected area is at the sole discretion of Seller.

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- b. Installation of the Product over non-approved substrates.
- c. Installation of the Product with adhesives other than those that are recommended by Seller.
- d. Application of sealers, finishes or cleaners other than those that are recommended by Seller.
- e. Defects caused by moisture, hydrostatic pressure, or alkali in the substrate.
- f. Improper or inadequate substrate preparation, installation or maintenance.
- g. Damage to the Product when left unprotected during construction or during moving of heavy equipment or furniture.

- h. Damage to the Product and/or its finish from high heels or spikes, inadequate furniture glides or casters.
- i. Exterior installations.
- j. Shade variations after installation.
- k. Fading resulting from UV rays.

This warranty only applies to new, first quality Product, and does not extend to "seconds," "off goods" or any other irregular (non-first quality) flooring materials ("AS IS Products"). Seller makes no warranties whatsoever, express or implied with respect to AS IS Products, including warranties of merchantability or fitness for a particular purpose.

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5. Limitation of Liability. The aggregate cumulative total liability for which Seller is obligated to pay Customer hereunder, whether for breach of warranty or contract, indemnifications herein, tort (including negligence), or otherwise, shall not exceed the original purchase price of the Product. Seller assumes no liability for labor costs in the installation of the Product claimed to be defective. In no event shall Seller be liable to Customer or any other person for loss of revenue, profit or any consequential, incidental, exemplary or punitive damages directly or indirectly arising from the use of the Products, from breach of any warranty or from any other cause, whether or not Seller has been informed of the possibility of such damages.



**CAPRI CORK WARRANTY REGISTRATION**

Date: \_\_\_\_\_ Invoice # \_\_\_\_\_ Invoice Date: \_\_\_\_\_

Purchaser Name: \_\_\_\_\_ Purchase Date: \_\_\_\_\_

End-User (Consumer) Name: \_\_\_\_\_

Consumer Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Phone: \_\_\_\_\_

Material ordered: \_\_\_\_\_

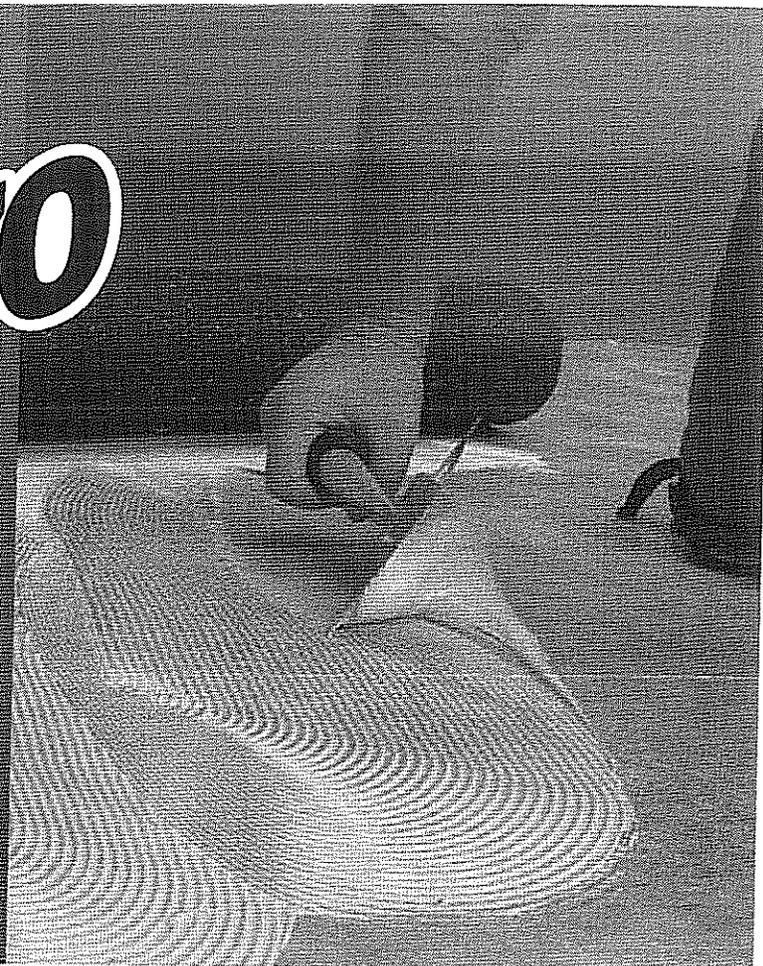
Installation Completion Date: \_\_\_\_\_

Return to Capri cork via fax (717.627.5007) or email (sales@capricork.com)



# Ultrabond ECO<sup>®</sup> 570

## Premium Urethane Rubber-Sports-Flooring Adhesive



### DESCRIPTION

*Ultrabond ECO 570* is a moisture-curing, one-component, polyurethane polymer adhesive specifically designed for the direct bonding of high-performance reground-rubber sports flooring in interior or exterior applications. Its unique formulation is perfectly suited for most types of reground-rubber sports flooring and provides an aggressive and durable bond. *Ultrabond ECO 570* utilizes rapidly renewable raw materials as part of the formulation and is free of phthalate plasticizers.

### FEATURES AND BENEFITS

- 100%-solids formulation, with no solvent added
- Excellent trowel-ridge holdout and green strength
- Extremely low-odor formula with negligible VOC content

### INDUSTRY STANDARDS AND APPROVALS

<u>LEED Points Contribution</u>	<u>LEED Points</u>
MR Credit 5, Regional Materials* .....	Up to 2 points
MR Credit 6, Rapidly Renewable Materials .....	1 point
IEQ Credit 4.1, Low-Emitting Materials – Adhesives & Sealants.....	1 point

\* Using this product may help contribute to LEED certification of projects in the categories shown above. Points are awarded based on contributions of all project materials.

### WHERE TO USE

- Interior and exterior reground-rubber sports-flooring installations in professional and educational athletic and fitness centers
- Commercial and residential installations of reground-rubber sports-flooring and underlayments

### LIMITATIONS

- Do not install over any substrates containing asbestos.
- Do not apply over any adhesive residues, including cutback adhesive.
- Install only in areas recommended by the flooring manufacturer.
- Use only when the substrate temperature is between 50°F and 90°F (10°C and 32°C), and when the ambient relative humidity is between 20% and 80%. Note: When the ambient relative humidity is lower than 20%, longer curing times will be expected.
- Do not use as a leveling, patching or subfloor repair material.

### SUITABLE SUBSTRATES

- Exterior-grade plywood and other approved wood underlayments (per flooring manufacturer's recommendations)
- Exterior-rated concrete and properly prepared cement terrazzo
- Exterior-rated cement-based, self-leveling underlayments and patching compounds

Consult MAPEI's Technical Services Department for installation recommendations regarding substrates and conditions not listed.

## **SURFACE PREPARATION**

- All substrates must be prepared in accordance with the sports-flooring manufacturer for the type of intended use and must comply with current regulations or standards.
- All substrates must be structurally sound, dry, solid, stable, level and flat.
- Substrate should be clean and free of dust, dirt, oil, grease, paint, curing agents, concrete sealers, loosely bonded toppings, loose particles, old adhesive residues, and any other substance or condition that may prevent or reduce adhesion.
- Concrete and cement-based underlayments and patches must be exterior-rated, fully cured and free of any hydrostatic pressure.

Refer to MAPEI's Surface Preparation Requirements document for floor-covering installation systems at [www.mapei.com](http://www.mapei.com).

## **MIXING**

Note: Wear all appropriate personal safety equipment during use. Refer to Material Safety Data Sheet (MSDS) for more information.

- Ready to use; no mixing is necessary.

## **PRODUCT APPLICATION**

1. Read all installation instructions thoroughly before installation.
2. Select the appropriately notched trowel (see "Approximate Product Coverage" section).
3. Key in adhesive to the surface of the substrate using the trowel's flat side.
4. Spread adhesive evenly over the subfloor, keeping the trowel at a 45° angle to the subfloor.
5. Only apply as much as can be installed within 30 to 60 minutes.
6. Install flooring in strict accordance with the flooring manufacturer's written instructions.
7. Adhesive transfer to the backing should be confirmed periodically by lifting the flooring material.

## **CLEANUP**

- *Ultrabond ECO 570* is extremely difficult to remove when cured.
- Immediately use *Ultrabond® Urethane Cleaner* to clean any adhesive smudges from the flooring material's surface while the adhesive is still fresh/wet.
- Immediately clean tools with *Ultrabond Urethane Cleaner* while the adhesive is still fresh/wet.

## **PROTECTION**

- Protect from light traffic for at least 12 hours, and from heavy traffic for at least 24 hours.
- Protect from rain/water exposure or freezing conditions for 24 hours after installation.
- Building owners should be advised of the flooring manufacturer's guidelines for climate control settings (temperature and humidity). These conditions must be monitored and kept constant in order to ensure the overall performance and long-term success of the installation.

**Product Performance Properties**

Laboratory Tests	Results
Polymer type	Urethane polymer
Percent solids	100%
VOCs	37 g/L
Color	Tan
Shelf life	1 year when stored in original packaging at 73°F (23°C)
Storage conditions	50°F to 90°F (10°C to 32°C)
Flash point (Tag)	> 200°F (93°C)

**Application Characteristics**

Sports Flooring	Flash Time*	Working Time**	Adjustability Time***
At 73°F (23°C) and 50% humidity	0 minutes	30 to 60 minutes	1 to 2 hours

\* Flash time: Amount of time recommended for the adhesive to remain exposed to the air following application before the installation of a floor covering.

\*\* Working time: The maximum amount of time that an adhesive can remain exposed to the air and still effectively bond to the floor covering.

\*\*\* Adjustability time: The window of time when adjustments can still be made to the position of the floor covering without compromising the bond of the adhesive.

Note: Working time and adjustment times vary based on temperature, humidity, substrate porosity, trowel size and jobsite conditions.

**Packaging**

Product Code	Size
95568	5 U.S. gals. (18,9 L)

**Approximate Product Coverage\* – Direct Adhesive Bonding**

Flooring Type	Typical Trowel	Coverage
Reground rubber mats or rolls	1/8" x 1/8" x 1/8" (3 x 3 x 3 mm) 	85 to 95 sq. ft. per U.S. gal. (2,08 to 2,33 m <sup>2</sup> per L)

\* Trowel dimensions are depth/width/space. Coverages shown are for estimating purposes only. Actual jobsite coverages may vary according to substrate conditions, type of trowel used and setting practices.

**RELATED DOCUMENTS**

Reference Guide: Surface Preparation Requirements for floor-covering installation systems	RGF0409*
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\* At [www.mapei.com](http://www.mapei.com).

Refer to MAPEI's MSDS for specific data related to VOCs, health and safety, and handling of product.

**STATEMENT OF RESPONSIBILITY**

Before using, user shall determine the suitability of the product for its intended use and user alone assumes all risks and liability whatsoever in connection therewith. **ANY CLAIM SHALL BE DEEMED WAIVED UNLESS MADE IN WRITING TO US WITHIN FIFTEEN (15) DAYS FROM DATE IT WAS, OR REASONABLY SHOULD HAVE BEEN, DISCOVERED.**

*We proudly support the following industry organizations:*



**MAPEI Headquarters of the Americas**  
 1144 East Newport Center Drive  
 Deerfield Beach, Florida 33442  
 Phone: 1-888-US-MAPEI  
 (1-888-876-2734)

**Technical Services**  
 1-800-992-6273 (U.S. and Puerto Rico)  
 1-800-361-9309 (Canada)

**Customer Service**  
 1-800-42-MAPEI (1-800-426-2734)

**For the most current BEST-BACKED™ product data and warranty information, visit [www.mapei.com](http://www.mapei.com).**

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# Material Safety Data Sheet

Material Name: ULTRABOND ECO 570

ID: SAH00566

## \*\*\* Section 1 - Chemical Product and Company Identification \*\*\*

Material Name: ULTRABOND ECO 570

### Product Use

Flooring Adhesive

### Manufacturer Information

USA and Puerto Rico

**MAPEI**

1144 East Newport Center Drive

Deerfield Beach, FL 33442

Phone: 1-954-246-8888

Canada

**MAPEI**

2900 Francis-Hughes Avenue

Laval, QC H7L 3J5

Phone: 1-450-662-1212

IN THE EVENT OF A CHEMICAL EMERGENCY INVOLVING A SPILL, LEAK, FIRE, EXPLOSION, EXPOSURE OR ACCIDENT, CONTACT THE FOLLOWING NUMBERS:

Emergency 24 hour numbers:

(USA) CHEMTREC 1-800-424-9300

(Canada) CANUTEC 1-631-996-6666

## \*\*\* Section 2 - Hazards Identification \*\*\*

### Emergency Overview

This product has been evaluated using criteria specified in 29CFR 1910.1200 (Hazard Communication Standard). This product may cause sensitization by inhalation and skin contact. This product is irritating to the eyes, respiratory system and skin.

### Hazard Statements

CAUTION! ALLERGEN. IRRITANT. May cause sensitization by inhalation and skin contact. Irritating to eyes, respiratory system and skin. Vapor harmful. Wear suitable gloves, eye/face protection, and respiratory protection. Keep out of the reach of children.

### Potential Health Effects: Eyes

This product is irritating to the eyes.

### Potential Health Effects: Skin

This product is irritating to the skin. Prolonged contact with this product may cause allergic skin sensitization reactions.

### Potential Health Effects: Ingestion

Ingestion of this product may cause nausea, vomiting and diarrhea.

### Potential Health Effects: Inhalation

This product is irritating to the respiratory system. This product may cause sensitization by inhalation.

### Medical Conditions Aggravated by Exposure

Hypersensitivity to product, allergies, and skin or respiratory disorders

### Potential Environmental Effects

None identified.

**HMIS Ratings: Health: 2\* Fire: 0 Reactivity: 0 Pers. Prot.:** Safety glasses, gloves, synthetic apron, NIOSH respirator if airborne concentrations exceed exposure limits

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe \* = Chronic hazard

# Material Safety Data Sheet

Material Name: ULTRABOND ECO 570

ID: SAH00566

## \*\*\* Section 3 - Composition / Information on Ingredients \*\*\*

CAS #	Component	Percent
68083-75-0	Urethane Polymer	10-30
1305-78-8	Calcium oxide	7-13
Proprietary	NJTSRN 5010110	5-10
101-68-8	Methylene bisphenol isocyanate (MDI)	1-5
6422-86-2	1,4-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester	0.5-1.5
57-11-4	Stearic acid	0.5-1.5

## \*\*\* Section 4 - First Aid Measures \*\*\*

### First Aid: Eyes

Immediately flush eyes with plenty of water for at least 15 minutes. If irritation persists, get medical attention.

### First Aid: Skin

Flush with large amounts of water. If irritation persists, get medical attention.

### First Aid: Ingestion

Flush out mouth with water. If ingestion of a large amount does occur, seek medical attention. Do not induce vomiting.

### First Aid: Inhalation

Immediately remove the affected person to fresh air. If symptoms persist, get medical attention.

### First Aid: Notes to Physician

Provide general supportive measures and treat symptomatically.

## \*\*\* Section 5 - Fire Fighting Measures \*\*\*

### General Fire Hazards

See Section 9 for Flammability Properties.

This product is an aqueous mixture which will not burn. If evaporated to dryness, the solid residue may pose a moderate fire hazard.

### Hazardous Combustion Products

Irritating and toxic gases or fumes may be released during a fire. Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

### Extinguishing Media

Dry chemical (preferred), foam, water.

### Fire Fighting Equipment/Instructions

Firefighters should wear full protective clothing including self contained breathing apparatus.

NFPA Ratings: Health: 2 Fire: 0 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

## \*\*\* Section 6 - Accidental Release Measures \*\*\*

### Personal Precautions

Wear appropriate protective equipment and clothing during clean-up.

### Containment Procedures

Dike the spilled material, where this is possible. Absorb with inert absorbent such as dry clay, sand or diatomaceous earth, commercial sorbents, or recover using pumps. Scoop up used absorbent into drums or other appropriate container.

# Material Safety Data Sheet

Material Name: ULTRABOND ECO 570

ID: SAH00566

**Environmental Precautions**

Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.

**Clean-Up Procedures**

Attempt to reclaim the free product, if this is possible. Shovel the material into waste container. Thoroughly wash the area with water after a spill or leak clean-up. Keep out of the reach of children.

**Evacuation Procedures**

None identified.

**Special Procedures**

Regulations vary. Consult local authorities before disposal.

**\*\*\* Section 7 - Handling and Storage \*\*\***

**Handling Procedures**

Avoid getting this material into contact with your skin and eyes. Avoid breathing vapors or mists of this product. Wash hands after handling and before eating. Keep out of the reach of children.

**Storage Procedures**

Keep the container tightly closed. Store in a cool, dry, well-ventilated area. Store at ambient temperature and atmospheric pressure. Keep out of sun.

**\*\*\* Section 8 - Exposure Controls / Personal Protection \*\*\***

**A: Component Exposure Limits**

**Limestone (1317-65-3)**

OSHA:	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)
NIOSH:	10 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable dust)
Alberta:	10 mg/m3 TWA
British Columbia:	10 mg/m3 TWA (total dust); 3 mg/m3 TWA (respirable fraction) 20 mg/m3 STEL
New Brunswick:	10 mg/m3 TWA (particulate matter containing no asbestos and < 1% crystalline silica)
NW Territories:	5 mg/m3 TWA (respirable mass); 10 mg/m3 TWA (total mass)
Nunavut:	5 mg/m3 TWA (respirable mass); 10 mg/m3 TWA (total mass)
Quebec:	10 mg/m3 TWAEV (total dust, containing no asbestos and less than 1% crystalline silica)
Saskatchewan:	20 mg/m3 STEL 10 mg/m3 TWA
Yukon:	20 mg/m3 STEL 30 mppcf TWA; 10 mg/m3 TWA

# Material Safety Data Sheet

Material Name: ULTRABOND ECO 570

ID: SAH00566

## Calcium oxide (1305-78-8)

ACGIH:	2 mg/m3 TWA
OSHA:	5 mg/m3 TWA
NIOSH:	2 mg/m3 TWA
Alberta:	2 mg/m3 TWA
British Columbia:	2 mg/m3 TWA
Manitoba:	2 mg/m3 TWA
New Brunswick:	2 mg/m3 TWA
NW Territories:	2 mg/m3 TWA 4 mg/m3 STEL
Nova Scotia:	2 mg/m3 TWA
Nunavut:	2 mg/m3 TWA 4 mg/m3 STEL
Ontario:	2 mg/m3 TWAEV
Quebec:	2 mg/m3 TWAEV
Saskatchewan:	4 mg/m3 STEL 2 mg/m3 TWA
Yukon:	4 mg/m3 STEL 2 mg/m3 TWA

## Methylene bisphenol isocyanate (MDI) (101-68-8)

ACGIH:	0.005 ppm TWA
OSHA:	0.02 ppm Ceiling; 0.2 mg/m3 Ceiling
NIOSH:	0.005 ppm TWA; 0.05 mg/m3 TWA 0.020 ppm Ceiling (10 min); 0.2 mg/m3 Ceiling (10 min)
Alberta:	0.005 ppm TWA; 0.05 mg/m3 TWA
British Columbia:	Sensitizer 0.005 ppm TWA 0.01 ppm Ceiling Skin notation
Manitoba:	0.005 ppm TWA
New Brunswick:	0.005 ppm TWA; 0.051 mg/m3 TWA
NW Territories:	0.02 ppm Ceiling; 0.2 mg/m3 Ceiling
Nova Scotia:	0.005 ppm TWA
Nunavut:	0.02 ppm Ceiling; 0.2 mg/m3 Ceiling
Ontario:	0.005 ppm TWAEV; 0.2 µmol/m3 TWAEV; 0.02 ppm CEV; 0.8 µmol/m3 CEV 0.005 ppm TWAEV (designated substance regulation); 0.2 µmol/m3 TWAEV (designated substance regulation) 0.02 ppm CEV (designated substances regulation); 0.8 µmol/m3 CEV (designated substances regulation)
Quebec:	0.005 ppm TWAEV; 0.051 mg/m3 TWAEV
Saskatchewan:	0.015 ppm STEL 0.005 ppm TWA
Yukon:	0.02 ppm Ceiling; 0.2 mg/m3 Ceiling

### Engineering Controls

Use general ventilation.

### PERSONAL PROTECTIVE EQUIPMENT

#### Personal Protective Equipment: Eyes/Face

Wear safety glasses with side shields. Wear chemical goggles; face shield (if splashing is possible).

#### Personal Protective Equipment: Skin

The use of nitrile-latex gloves is recommended. Work clothing sufficient to prevent all skin contact should be worn, such as coveralls and long sleeves. This product may cause sensitization by skin contact.

# Material Safety Data Sheet

Material Name: ULTRABOND ECO 570

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## Personal Protective Equipment: Respiratory

If airborne concentrations are above the applicable exposure limits, use NIOSH approved respiratory protection. This product may cause sensitization by inhalation.

## Personal Protective Equipment: General

Laundry contaminated clothing before reuse. Use good industrial hygiene practices in handling this material.

### \*\*\* Section 9 - Physical & Chemical Properties \*\*\*

Appearance:	Beige paste	Odor:	Odorless
Physical State:	Paste	pH:	N/A
Vapor Pressure:	N/A	Vapor Density:	N/A
Boiling Point:	N/A	Melting Point:	N/A
Solubility (H2O):	Insoluble	Specific Gravity:	1.40 - 1.70
Evaporation Rate:	N/A	VOC:	18 g/L
Octanol/H2O Coeff.:	N/A	Flash Point:	>200° F (93° C)
Flash Point Method:	CC	Upper Flammability Limit (UFL):	N/A
Lower Flammability Limit (LFL):	N/A	Burning Rate:	N/A
Auto Ignition:	N/A		

## Physical Properties: Additional Information

The data provided in this section is to be used for product safety handling purposes. Please refer to Product Data Sheets, Certificates of Conformity or Certificates of Analysis for chemical and physical data for determinations of quality and for formulation purposes.

### \*\*\* Section 10 - Chemical Stability & Reactivity Information \*\*\*

#### Chemical Stability

Stable under normal conditions.

#### Chemical Stability: Conditions to Avoid

Do not freeze.

#### Incompatibility

This product may react with strong acids, bases and oxidizing agents.

#### Hazardous Decomposition

Irritating and/or toxic fumes and gases may be emitted upon the product's decomposition. Upon decomposition, this product may emit fumes of carbon monoxide, carbon dioxide, oxides of nitrogen, and other organic compounds.

#### Possibility of Hazardous Reactions

Will not occur.

### \*\*\* Section 11 - Toxicological Information \*\*\*

#### Acute Dose Effects

##### A: General Product Information

No information available for the product.

##### B: Component Analysis - LD50/LC50

###### Calcium oxide (1305-78-8)

Oral LD50 Rat 500 mg/kg

###### Methylene bisphenol isocyanate (MDI) (101-68-8)

Oral LD50 Rat 9200 mg/kg

###### Stearic acid (57-11-4)

# Material Safety Data Sheet

Material Name: ULTRABOND ECO 570

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Dermal LD50 Rabbit >5 g/kg

## Carcinogenicity

### A: General Product Information

No information available for the product.

### B: Component Carcinogenicity

**Methylene bisphenol isocyanate (MDI) (101-68-8)**

IARC:	Monograph 71 [1999]; Supplement 7 [1987]; Monograph 19 [1979] (Group 3 (not classifiable))
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## Sensitization

This product may cause sensitization by inhalation and skin contact.

## \*\*\* Section 12 - Ecological Information \*\*\*

## Ecotoxicity

### A: General Product Information

No information available for the product.

### B: Component Analysis - Ecotoxicity - Aquatic Toxicity

**Calcium oxide (1305-78-8)**

Test & Species	Conditions
96 Hr LC50 Cyprinus carpio	1070 mg/L [static]

## \*\*\* Section 13 - Disposal Considerations \*\*\*

## US EPA Waste Number & Descriptions

### A: General Product Information

No additional information available.

### B: Component Waste Numbers

No EPA Waste Numbers are applicable for this product's components.

## Disposal Instructions

Waste must be handled in accordance with all federal, state, provincial, and local regulations. Consult authorities before disposal.

See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

## \*\*\* Section 14 - Transportation Information \*\*\*

## International Transportation Regulations

Not regulated as dangerous goods.

## \*\*\* Section 15 - Regulatory Information \*\*\*

## US Federal Regulations

### A: General Product Information

All of the components of this product are listed on, or are exempted from listing on the U.S. EPA TSCA Inventory of Chemical Substances. All components of this product are included, or are exempt from inclusion, in the Canadian Domestic Substance List unless otherwise noted.

# Material Safety Data Sheet

Material Name: ULTRABOND ECO 570

ID: SAH00566

## B: Component Analysis

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) and/or CERCLA (40 CFR 302.4).

### Methylene bisphenol isocyanate (MDI) (101-68-8)

SARA 313:	1.0 % de minimis concentration
CERCLA:	5000 lb final RQ; 2270 kg final RQ

## State Regulations

### A: General Product Information

Other state regulations may apply. Check individual state requirements.

### B: Component Analysis - State

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA	RI
Limestone	1317-65-3	No	Yes	Yes	Yes	Yes	Yes
Calcium oxide	1305-78-8	Yes	Yes	Yes	Yes	Yes	Yes
Methylene bisphenol isocyanate (MDI)	101-68-8	Yes	Yes	Yes	Yes	Yes	Yes

The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):  
WARNING! This product contains a chemical known to the state of California to cause cancer.

## Canadian WHMIS Information

### A: General Product Information



### B: Component Analysis - WHMIS IDL

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

Component	CAS #	Minimum Concentration
Calcium oxide	1305-78-8	1 %
Methylene bisphenol isocyanate (MDI)	101-68-8	0.1 %

## Additional Regulatory Information

### A: General Product Information

Supplier(s) of proprietary component(s) state that these components are contained on the TSCA inventory.

### B: Component Analysis - Inventory

Component	CAS #	TSCA	CAN	EEC
Limestone	1317-65-3	Yes	NDSL	EINECS
Calcium oxide	1305-78-8	Yes	DSL	EINECS
NJTSRN 5010110	Proprietary	Yes	DSL	EINECS
Methylene bisphenol isocyanate (MDI)	101-68-8	Yes	DSL	EINECS
1,4-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester	6422-86-2	Yes	DSL	EINECS
Stearic acid	57-11-4	Yes	DSL	EINECS

## \*\*\* Section 16 - Other Information \*\*\*

Reference

T1-1438-51

# Material Safety Data Sheet

Material Name: ULTRABOND ECO 570

ID: SAH00566

## Other Information

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use. The information herein is presented in good faith and believed to be accurate as of the effective date given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

## Key/Legend

NA = Not available or Not Applicable. ACGIH = American Conference of Governmental Industrial Hygienists. NFPA = National Fire Protection Association. EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration., NJTSR = New Jersey Trade Secret Registry.

Contact: Product Safety Specialist

Contact Phone: 1-954-246-8888

End of Sheet SAH00566



# Planipatch®

**Fast-Setting, Polymer-Modified, Cement-Based Patching Compound**



Photo shows mixture of *Planipatch* and *Planipatch Plus*

## DESCRIPTION

*Planipatch* is an ultra fast-drying, self-curing, polymer-modified, cement-based patching compound that rapidly develops high compressive strength. When *Planipatch* is mixed with *Planipatch Plus*, the *Planipatch Plus* System can be used as an embossing leveler or as a patch to fill voids over properly prepared vinyl sheet goods, vinyl composition tile (VCT) and cement terrazzo before the direct glue-down installation of floor coverings.

## FEATURES AND BENEFITS

- Fast-setting
- Polymer-modified
- Easy to apply

## INDUSTRY STANDARDS AND APPROVALS

<u>LEED (Version 3.0) Points Contribution</u>	<u>LEED Points</u>
MR Credit 5, Regional Materials* .....	Up to 2 points
IEQ Credit 4.1, Low-Emitting Materials – Adhesives & Sealants.....	1 point

\* Using this MAPEI product may help contribute to LEED certification of projects in the categories shown above. Points are awarded based on contributions of all project materials.

## WHERE TO USE

- For skimcoating unfinished, rough-textured concrete and approved wood underlayments

- For filling minor voids, holes and cracks in concrete and approved wood underlayments
- Mix *Planipatch* with *Planipatch Plus* and use as an embossing leveler or as a patch to fill voids over properly prepared existing cement terrazzo, ceramic tile, VCT, or non-cushioned, fully adhered residential sheet vinyl flooring, cutback and carpet adhesive residues.
- Interior residential (rental apartments, condominiums, homes)
- Interior commercial (office buildings, hotel rooms and hallways, restaurants, cafeterias)
- Interior heavy commercial (hotel lobbies, convention centers, airports, shopping malls, grocery stores, department stores)
- Interior institutional (hospitals, schools, universities, libraries, government buildings)

See "Limitations" section below.

## LIMITATIONS

- Do not install over substrates containing asbestos.
- Do not use as a final wear surface.
- Use only when the substrate and ambient temperatures are between 50°F and 100°F (10°C and 38°C).
- For interior installations only
- Do not apply over self-stick tile, presswood, particleboard, flakeboard or similar types of dimensionally unstable substrates.
- Do not install when the moisture vapor emission rate (MVER) exceeds 8 lbs. per 1,000 sq. ft. (3.63 kg per 92.9 m<sup>2</sup>) per 24 hours, when using the

anhydrous calcium chloride test (ASTM F1869). Do not exceed the flooring manufacturer's recommendations for MVER. When MVER is above 5 lbs. per 1,000 sq. ft. (2,27 kg per 92,9 m<sup>2</sup>) per 24 hours, *Planipatch Plus* is recommended for optimum performance.

- Do not install when the relative humidity (RH) exceeds 85%, when using the in-situ probe method (ASTM F2170). Do not exceed the flooring manufacturer's recommendations for RH.
- Do not use to fill existing expansion control joints.
- When leveling large areas, use as a thin application only. Refer to Technical Data Sheets (TDSs) at [www.mapei.com](http://www.mapei.com) for use of self-leveling products.

## SUITABLE SUBSTRATES

When mixed with water or diluted *Planipatch Plus*

- Concrete
- APA or CANPLY Group 1 exterior-glue plywood
- Other approved wood underlayments (per flooring manufacturer's recommendations)

When mixed with *Planipatch Plus* (full-strength)

- Properly prepared cutback and carpet adhesive residue
- Existing, properly prepared cement terrazzo
- Existing, properly prepared and fully bonded ceramic tile
- A single layer of properly prepared, fully bonded VCT
- A single layer of properly prepared, fully bonded felt-backed sheet vinyl

Consult MAPEI's Technical Services Department for installation recommendations regarding substrates and conditions not listed.

## SURFACE PREPARATION

- All substrates must be structurally sound, dry, solid and stable.
- Substrate should be clean and free of dust, dirt, oil, grease, paint, curing agents, concrete sealers, loosely bonded toppings, loose particles, epoxy adhesives, urethane adhesives, and any other substance or condition that may prevent or reduce adhesion.
- Concrete must free of any negative hydrostatic pressure and/or excessive moisture.
- Refer to MAPEI's "Surface Preparation Requirements" document for floor-covering installation systems at [www.mapei.com](http://www.mapei.com).

## MIXING

Note: Choose all appropriate safety equipment before use. Refer to Material Safety Data Sheet (MSDS) for more information.

- See TDS for *Planipatch Plus* for detailed instructions on diluting *Planipatch Plus* with water.
- *Planipatch* can be mixed with the following liquids, depending on the application:
  - Clean, cool, potable water
  - Diluted *Planipatch Plus* (1 part *Planipatch Plus* to 3 parts water)
  - Full-strength *Planipatch Plus*

### Mixing Ratios for *Planipatch* powder

For 4.4 lbs. (2.0 kg) bag

- (A) Water to add..... 20 to 22 U.S. oz. (591 to 651 mL)
- (B) Diluted *Planipatch Plus*  
to add..... 22 to 25 U.S. oz. (651 to 739 mL)
- (C) Full-strength  
*Planipatch Plus* to add ..... 25 to 27 U.S. oz. (739 to 798 mL)

For 10 lbs. (4.54 kg) bag

- (A) Water to add..... 45 to 50 U.S. oz. (1,33 to 1,48 L)
- (B) Diluted *Planipatch Plus*  
to add..... 45 to 57 U.S. oz. (1,33 to 1,69 L)
- (C) Full-strength  
*Planipatch Plus* to add ..... 57 to 62 U.S. oz. (1,69 to 1,83 L)

Note: Due to the short pot life of *Planipatch*, it is not recommended to mix large quantities of *Planipatch* at one time.

Single-Coat Application – When skimcoating and filling minor voids in concrete and wood substrates, mix *Planipatch* with water (A) or diluted *Planipatch Plus* (B).

Two-Coat Application – When using *Planipatch* as an embossing leveler or to patch over properly prepared cement terrazzo, ceramic tile, existing VCT or existing non-cushioned, fully adhered residential sheet vinyl flooring, mix *Planipatch* with full-strength *Planipatch Plus* (C) for the first coat. Then mix *Planipatch* with diluted *Planipatch Plus* (B) for a second coat.

1. Some settling may occur during transportation. Dry-blend *Planipatch* powder before mixing.
2. Into a clean mixing container, pour 1 part liquid (A, B or C). Gradually add 2-1/2 to 3 parts *Planipatch* powder by volume while slowly mixing.  
  
Note: Water temperature should not exceed 73°F (23°C). Higher water temperature will shorten pot life.
3. Do not overwater.
4. Use a low-speed mixer (at about 300 rpm) to mix for 2 minutes at maximum. Mix thoroughly to a smooth, lump-free consistency.
5. Do not mix more material than can be applied within 8 to 10 minutes.
6. Avoid air entrapment and prolonged mixing, which will shorten pot life.

## Shelf Life and Application Properties at 73°F (23°C) and 50% relative humidity

Pot life	8 to 10 minutes
Drying time required before floor-covering installation*	60 to 90 minutes, or once the product is completely dry
Compressive strength, 28 days (ASTM C109)	> 3,500 psi (24,1 MPa)
Cleanability	With water while still fresh
Shelf life	1 year when stored in original container at 73°F (23°C) in a heated area

\* Drying time and open/working time may vary based on temperature, humidity, substrate porosity, thickness of application and jobsite conditions.

## Packaging

Product Code	Size
10940000 (Canada only)	Bag: 4.4 lbs. (2,0 kg)
0080010 (U.S.); 1091000 (Canada)	Bag: 10 lbs. (4,54 kg)
10922000 (Canada only)	Bag: 22 lbs. (9,98 kg)
0080025 (U.S. only)	Bag: 25 lbs. (11,3 kg)
0080045 (U.S. only)	Pail: 45 lbs. (20,4 kg)

## Approximate Product Coverage

Size	Thickness Applied	Coverage*
4.4 lbs. (2 kg)	1/32" (1 mm)	17 to 25 sq. ft. (1,58 to 2,32 m <sup>2</sup> )
	1/8" (3 mm)	4 to 6 sq. ft. (0,37 to 0,56 m <sup>2</sup> )
10 lbs. (4,54 kg)	1/32" (1 mm)	40 to 56 sq. ft. (3,72 to 5,20 m <sup>2</sup> )
	1/8" (3 mm)	10 to 14 sq. ft. (0,93 to 1,30 m <sup>2</sup> )
22 lbs. (9,98 kg)	1/32" (1 mm)	80 to 123 sq. ft. (7,43 to 11,4 m <sup>2</sup> )
	1/8" (3 mm)	20 to 31 sq. ft. (1,86 to 2,88 m <sup>2</sup> )
25 lbs. (11,3 kg)	1/32" (1 mm)	100 to 140 sq. ft. (9,29 to 13,0 m <sup>2</sup> )
	1/8" (3 mm)	25 to 35 sq. ft. (2,32 to 3,25 m <sup>2</sup> )
45 lbs. (20,4 kg)	1/32" (1 mm)	180 to 251 sq. ft. (16,7 to 23,3 m <sup>2</sup> )
	1/8" (3 mm)	45 to 62.8 sq. ft. (4,18 to 5,83 m <sup>2</sup> )

\* Coverages shown are for estimating purposes only. Actual jobsite coverage may vary according by application method, substrate, substrate conditions and actual thickness applied.

## PRODUCT APPLICATION

### Single-Coat Application Method

1. Select an appropriate flat-edged steel trowel.
2. Immediately apply mixed *Planipatch* to the substrate, according to the desired thickness – up to 1/2" (12 mm) maximum when mixed with water (A), or 1/4" (6 mm) maximum when mixed with diluted *Planipatch Plus* (B). Blend into the surrounding area and finish to the required smoothness.
3. Allow at least 60 minutes to dry. Finish with the final floor covering chosen.

### Two-Coat Application Method

1. Select an appropriate flat-edged steel trowel.
2. First coat: Immediately apply mixture of *Planipatch* and full-strength *Planipatch Plus* (C) to the substrate according to a desired thickness, from 1/16" to 1/8" (1,5 to 3 mm). Blend into the surrounding area and finish to the required smoothness. Allow to dry completely.
3. Second coat: Immediately apply mixture of *Planipatch* and diluted *Planipatch Plus* (B) to the substrate according to the desired thickness, from 1/32" to 1/4" (1 to 6 mm). Ensure that all areas with a first coat are completely covered by a second coat. Allow at least 60

# Planipatch®

minutes to dry; thicker applications may require longer drying times before the application of flooring adhesives.

## CLEANUP

Clean tools and equipment with water while product is still wet/fresh. Use mechanical means to remove cured product.

## PROTECTION

- Provide for dry, heated storage on site and deliver materials at least 24 hours before work begins.
- Protect from traffic, dirt or dust from other trades until the final installation of the floor covering.
- Because temperature and humidity (during and after tile installation) affect the final curing time, allow for extended periods of cure and protection when temperatures drop below 60°F (16°C) and/or when the relative humidity is higher than 70%.

## RELATED DOCUMENTS

Reference Guide: Surface Preparation Requirements for floor-covering installation systems	RGF0409*
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\* At [www.mapei.com](http://www.mapei.com).

Refer to the MSDS for specific data related to VOCs, health and safety, and handling of product.

## STATEMENT OF RESPONSIBILITY

Before using, user shall determine the suitability of the product for its intended use and user alone assumes all risks and liability whatsoever in connection therewith. **ANY CLAIM SHALL BE DEEMED WAIVED UNLESS MADE IN WRITING TO US WITHIN FIFTEEN (15) DAYS FROM DATE IT WAS, OR REASONABLY SHOULD HAVE BEEN, DISCOVERED.**

We proudly support the following industry organizations:



**MAPEI Headquarters of the Americas**  
1144 East Newport Center Drive  
Deerfield Beach, Florida 33442  
Phone: 1-888-US-MAPEI  
(1-888-876-2734)

**Technical Services**  
1-800-992-6273 (U.S. and Puerto Rico)  
1-800-361-9309 (Canada)

**Customer Service**  
1-800-42-MAPEI (1-800-426-2734)

For the most current **BEST-BACKED™** product data and warranty information, visit [www.mapei.com](http://www.mapei.com).

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# Material Safety Data Sheet

Material Name: PLANIPATCH

ID: SAH00074

## \*\*\* Section 1 - Chemical Product and Company Identification \*\*\*

Material Name: PLANIPATCH

### Product Use

Cement Patching Compound

### Manufacturer Information

USA and Puerto Rico

**MAPEI**

1144 East Newport Center Drive

Deerfield Beach, FL 33442

Phone: 1-954-246-8888

Canada

**MAPEI**

2900 Francis-Hughes Avenue

Laval, QC H7L 3J5

Phone: 1-450-662-1212

IN THE EVENT OF A CHEMICAL EMERGENCY INVOLVING A SPILL, LEAK, FIRE, EXPLOSION, EXPOSURE OR ACCIDENT, CONTACT THE FOLLOWING NUMBERS:

Emergency 24 hour numbers:

(USA) CHEMTREC 1-800-424-9300

(Canada) CANUTEC 1-613-996-6666

## \*\*\* Section 2 - Hazards Identification \*\*\*

### Emergency Overview

This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

White or gray powder. Cement odor. This product is irritating to the eyes and skin. Causes burns to the skin and eyes when mixed with water.

### Hazard Statements

DANGER! CORROSIVE. MAY IRRITATE EYES. MAY IRRITATE SKIN. Causes burns to the skin and eyes when mixed with water. Chronic lung disease (silicosis) and/or lung cancer may result from prolonged/repeated breathing of the dust of this material.

### Potential Health Effects: Eyes

This product is irritating to the eyes. Symptoms can include irritation, redness, scratching of the cornea, and tearing.

### Potential Health Effects: Skin

This product is irritating to the skin. Mechanical rubbing may increase skin irritation.

### Potential Health Effects: Ingestion

Ingestion of this product may cause nausea, vomiting and diarrhea.

### Potential Health Effects: Inhalation

This product is irritating to the respiratory system. Chronic lung disease (silicosis) and/or lung cancer may result from prolonged/repeated breathing of the dust of this material. Inhalation of dusts produced during cutting, grinding or sanding of this product may cause irritation of the respiratory tract.

### Medical Conditions Aggravated by Exposure

Hypersensitivity to product, allergies, and skin or respiratory disorders

### Potential Environmental Effects

None identified.

# Material Safety Data Sheet

Material Name: PLANIPATCH

ID: SAH00074

HMIS Ratings: Health: 1\* Fire: 0 Reactivity: 0 Pers. Prot.: Safety glasses, gloves, and N95 respirator if dust exposure exceeds TLV values

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe \* = Chronic hazard

## \*\*\* Section 3 - Composition / Information on Ingredients \*\*\*

CAS #	Component	Percent
13397-24-5	Gypsum	7-13
65997-15-1	Portland cement	5-10
68683-26-1	Vinyl versatate polymer	3-7
14808-60-7	Crystalline silica	1-5
7778-18-9	Calcium sulfate	0.5-1.5

## \*\*\* Section 4 - First Aid Measures \*\*\*

### First Aid: Eyes

Get medical attention or advice. Immediately flush eyes with plenty of water for at least 15 minutes.

### First Aid: Skin

Get medical attention or advice. Flush with large amounts of water.

### First Aid: Ingestion

Get medical attention or advice. Flush out mouth with water. Do not induce vomiting.

### First Aid: Inhalation

Get medical attention or advice. Immediately remove the affected person to fresh air.

### First Aid: Notes to Physician

Provide general supportive measures and treat symptomatically.

## \*\*\* Section 5 - Fire Fighting Measures \*\*\*

### General Fire Hazards

See Section 9 for Flammability Properties.

As with all dry powders, it is advisable to ground mechanical equipment in contact with dry material to dissipate the potential buildup of static electricity.

### Hazardous Combustion Products

Irritating and toxic gases or fumes may be released during a fire. Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

### Extinguishing Media

Dry chemical (preferred), foam, water.

### Unsuitable Extinguishing Media

None identified.

### Specific Hazards Arising From the Chemical

None identified.

### Fire Fighting Equipment/Instructions

Firefighters should wear full protective clothing including self contained breathing apparatus.

NFPA Ratings: Health: 1 Fire: 0 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

# Material Safety Data Sheet

Material Name: PLANIPATCH

ID: SAH00074

## \*\*\* Section 6 - Accidental Release Measures \*\*\*

### Personal Precautions

Avoid the generation of dust during clean-up. Wear appropriate protective equipment and clothing during clean-up.

### Containment Procedures

Contain the discharged material.

### Environmental Precautions

Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.

### Clean-Up Procedures

Attempt to reclaim the free product, if this is possible. Shovel the material into waste container. Thoroughly wash the area with water after a spill or leak clean-up. Wear appropriate protective equipment and clothing during clean-up. Keep out of the reach of children.

### Evacuation Procedures

None identified.

### Special Procedures

Wear a dust mask if dust is generated above exposure limits.

## \*\*\* Section 7 - Handling and Storage \*\*\*

### Handling Procedures

Avoid getting this material into contact with your skin and eyes. Avoid breathing dusts from this material. Wash hands after handling and before eating. Keep out of the reach of children.

### Storage Procedures

Store in a cool, dry, well-ventilated area. Keep the container tightly closed. Do not freeze.

## \*\*\* Section 8 - Exposure Controls / Personal Protection \*\*\*

### Exposure Guidelines

#### A: General Product Information

Keep formation of dusts, particulates and fumes to a minimum.

#### B: Component Exposure Limits

##### Calcium sulfate (7778-18-9)

ACGIH:	10 mg/m3 TWA (inhalable fraction)
OSHA:	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)
NIOSH:	10 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable dust)
Alberta:	10 mg/m3 TWA
British Columbia:	10 mg/m3 TWA (inhalable)
Manitoba:	10 mg/m3 TWA (inhalable fraction)
New Brunswick:	10 mg/m3 TWA (particulate matter containing no Asbestos and <1% Crystalline silica)
Nova Scotia:	10 mg/m3 TWA (inhalable fraction)
Ontario:	10 mg/m3 TWA (inhalable)
Quebec:	10 mg/m3 TWAEV (containing no Asbestos and <1% Crystalline silica, total dust); 5 mg/m3 TWAEV (containing no Asbestos and <1% Crystalline silica, respirable dust)
Saskatchewan:	20 mg/m3 STEL (listed under Gypsum and Plaster of Paris)
	10 mg/m3 TWA (listed under Gypsum and Plaster of Paris)

# Material Safety Data Sheet

Material Name: PLANIPATCH

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## Gypsum (13397-24-5)

ACGIH:	10 mg/m3 TWA (inhalable fraction, listed under Calcium sulfate)
OSHA:	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)
NIOSH:	10 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable dust)
Alberta:	10 mg/m3 TWA (listed under Calcium sulphate)
British Columbia:	10 mg/m3 TWA (total dust); 3 mg/m3 TWA (respirable fraction) 20 mg/m3 STEL
Manitoba:	10 mg/m3 TWA (inhalable fraction, listed under Calcium sulfate)
NW Territories:	5 mg/m3 TWA (respirable mass); 10 mg/m3 TWA (total mass)
Nova Scotia:	10 mg/m3 TWA (inhalable fraction, listed under Calcium sulfate)
Nunavut:	5 mg/m3 TWA (respirable mass); 10 mg/m3 TWA (total mass)
Ontario:	10 mg/m3 TWA (inhalable, listed under Calcium sulfate)
Quebec:	10 mg/m3 TWAEV (containing no Asbestos and <1% Crystalline silica, total dust); 5 mg/m3 TWAEV (containing no Asbestos and <1% Crystalline silica, respirable dust)
Saskatchewan:	20 mg/m3 STEL 10 mg/m3 TWA
Yukon:	20 mg/m3 STEL 30 mppcf TWA; 10 mg/m3 TWA

## Portland cement (65997-15-1)

ACGIH:	1 mg/m3 TWA (particulate matter containing no asbestos and <1% crystalline silica, respirable fraction)
OSHA:	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)
NIOSH:	10 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable dust)
Alberta:	10 mg/m3 TWA
British Columbia:	10 mg/m3 TWA (total particulate matter containing no Asbestos and <1% Crystalline silica, total particulate); 3 mg/m3 TWA (particulate matter containing no Asbestos and <1% Crystalline silica, respirable particulate)
Manitoba:	1 mg/m3 TWA (particulate matter containing no Asbestos and <1% Crystalline silica, respirable fraction)
New Brunswick:	10 mg/m3 TWA (particulate matter containing no Asbestos and <1% Crystalline silica)
NW Territories:	5 mg/m3 TWA (respirable mass); 10 mg/m3 TWA (total mass)
Nova Scotia:	1 mg/m3 TWA (respirable fraction, particulate matter containing no Asbestos and <1% Crystalline silica)
Nunavut:	5 mg/m3 TWA (respirable mass); 10 mg/m3 TWA (total mass)
Ontario:	10 mg/m3 TWA (containing no Asbestos and <1% Crystalline silica, total dust)
Quebec:	10 mg/m3 TWAEV (containing no Asbestos and <1% Crystalline silica, total dust); 5 mg/m3 TWAEV (containing no Asbestos and <1% Crystalline silica, respirable dust)
Saskatchewan:	20 mg/m3 STEL 10 mg/m3 TWA
Yukon:	20 mg/m3 STEL 30 mppcf TWA; 10 mg/m3 TWA

# Material Safety Data Sheet

Material Name: PLANIPATCH

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## Crystalline silica (14808-60-7)

ACGIH:	0.025 mg/m <sup>3</sup> TWA (respirable fraction)
OSHA:	0.1 mg/m <sup>3</sup> TWA (respirable dust)
NIOSH:	0.05 mg/m <sup>3</sup> TWA (respirable dust)
Alberta:	0.025 mg/m <sup>3</sup> TWA (respirable particulate)
British Columbia:	ACGIH Category A2 - Suspected Human Carcinogen; IARC Category 1 - Human Carcinogen 0.025 mg/m <sup>3</sup> TWA (respirable)
Manitoba:	0.025 mg/m <sup>3</sup> TWA (respirable fraction)
New Brunswick:	0.1 mg/m <sup>3</sup> TWA (respirable fraction)
NW Territories:	0.1 mg/m <sup>3</sup> TWA (respirable mass); 0.3 mg/m <sup>3</sup> TWA (total mass)
Nova Scotia:	0.025 mg/m <sup>3</sup> TWA (respirable fraction)
Nunavut:	0.1 mg/m <sup>3</sup> TWA (respirable mass); 0.3 mg/m <sup>3</sup> TWA (total mass)
Ontario:	0.10 mg/m <sup>3</sup> TWA (respirable fraction) 0.10 mg/m <sup>3</sup> TWA (designated substance regulation, respirable)
Quebec:	0.1 mg/m <sup>3</sup> TWAEV (respirable dust)
Saskatchewan:	0.05 mg/m <sup>3</sup> TWA (respirable fraction, listed under Silica - crystalline)
Yukon:	300 particle/mL TWA (listed under Silica)

### Engineering Controls

Use general ventilation and use local exhaust, where possible, in confined or enclosed spaces.

### PERSONAL PROTECTIVE EQUIPMENT

#### Personal Protective Equipment: Eyes/Face

Wear safety glasses with side shields or goggles.

#### Personal Protective Equipment: Skin

The use of nitrile-latex gloves is recommended.

#### Personal Protective Equipment: Respiratory

If airborne concentrations are above the applicable exposure limits, use NIOSH approved respiratory protection.

#### Personal Protective Equipment: General

Laundry contaminated clothing before reuse. Use good industrial hygiene practices in handling this material.

## \*\*\* Section 9 - Physical & Chemical Properties \*\*\*

Appearance:	White or gray powder.	Odor:	Cement odor.
Physical State:	Powder	pH:	NA
Vapor Pressure:	NA	Vapor Density:	NA
Boiling Point:	NA	Melting Point:	NA
Solubility (H <sub>2</sub> O):	Dispersible	Specific Gravity:	2.0 - 2.3
Evaporation Rate:	NA	VOC:	0 g/L
Octanol/H <sub>2</sub> O Coeff.:	NA	Flash Point:	NA
Flash Point Method:	NA	Upper Flammability Limit (UFL):	NA
Lower Flammability Limit (LFL):	NA	Burning Rate:	NA
Auto Ignition:	NA		

### Physical Properties: Additional Information

The data provided in this section is to be used for product safety handling purposes. Please refer to Product Data Sheets, Certificates of Conformity or Certificates of Analysis for chemical and physical data for determinations of quality and for formulation purposes.

# Material Safety Data Sheet

Material Name: PLANIPATCH

ID: SAH00074

## \*\*\* Section 10 - Chemical Stability & Reactivity Information \*\*\*

### Chemical Stability

Stable under normal conditions.

### Chemical Stability: Conditions to Avoid

Keep away from heat, ignition sources and incompatible materials.

### Incompatibility

This product may react with strong acids, bases and oxidizing agents.

### Hazardous Decomposition

Irritating and/or toxic fumes and gases may be emitted upon the product's decomposition. Upon decomposition, this product may emit fumes of carbon monoxide, carbon dioxide, oxides of nitrogen, and other organic compounds.

### Possibility of Hazardous Reactions

Will not occur.

## \*\*\* Section 11 - Toxicological Information \*\*\*

### Acute Dose Effects

#### A: General Product Information

No information available for the product.

#### B: Component Analysis - LD50/LC50

**Calcium sulfate (7778-18-9)**

Oral LD50 Rat >3000 mg/kg

**Crystalline silica (14808-60-7)**

Oral LD50 Rat 500 mg/kg

### Carcinogenicity

#### A: General Product Information

Exposure to quartz (the most stable and common form of crystalline silica) is responsible for the majority of clinically diagnosed silicosis. Silicosis is a fibronodular lung disease that occurs after occupational exposure to crystalline silica for 5 years or longer. Inhalation of quartz dusts may cause shortness of breath, limitation of chest expansion, dry cough, and a lessened capacity for work. Individuals with a pre-existing disease in, or a history of ailments involving the skin or respiratory tract, are at a greater risk of developing adverse health effects when exposed to this material. There may be a relationship between silicosis and certain cancers.

#### B: Component Carcinogenicity

##### Portland cement (65997-15-1)

ACGIH:	A4 - Not Classifiable as a Human Carcinogen
--------	---

##### Crystalline silica (14808-60-7)

ACGIH:	A2 - Suspected Human Carcinogen
NIOSH:	potential occupational carcinogen
NTP:	Known Human Carcinogen (respirable size) (Select Carcinogen)
IARC:	Monograph 100C [in preparation] (listed under Crystalline silica inhaled in the form of quartz or cristobalite from occupational sources); Monograph 68 [1997] (Group 1 (carcinogenic to humans))

### Sensitization

No information available for the product.

# Material Safety Data Sheet

Material Name: PLANIPATCH

ID: SAH00074

## \*\*\* Section 12 - Ecological Information \*\*\*

### Ecotoxicity

#### A: General Product Information

No information available for the product.

#### B: Component Analysis - Ecotoxicity - Aquatic Toxicity

##### Calcium sulfate (7778-18-9)

Test & Species		Conditions
96 Hr LC50 Lepomis macrochirus	2980 mg/L [static]	
96 Hr LC50 Pimephales promelas	>1970 mg/L [static]	
120 Hr EC50 Nitscheria linearis	3200 mg/L	

## \*\*\* Section 13 - Disposal Considerations \*\*\*

### US EPA Waste Number & Descriptions

#### A: General Product Information

No additional information available.

#### B: Component Waste Numbers

No EPA Waste Numbers are applicable for this product's components.

### Disposal Instructions

Waste must be handled in accordance with all federal, state, provincial, and local regulations. Consult authorities before disposal.

See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

## \*\*\* Section 14 - Transportation Information \*\*\*

### International Transportation Regulations

Not regulated as dangerous goods.

## \*\*\* Section 15 - Regulatory Information \*\*\*

### US Federal Regulations

#### A: General Product Information

All of the components of this product are listed on, or are exempted from listing on the U.S. EPA TSCA Inventory of Chemical Substances. All components of this product are included, or are exempt from inclusion, in the Canadian Domestic Substance List unless otherwise noted.

#### B: Component Analysis

None of this products components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

### State Regulations

#### A: General Product Information

Other state regulations may apply. Check individual state requirements.

#### B: Component Analysis - State

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA	RI
Calcium sulfate	7778-18-9	No	Yes	Yes	Yes	Yes	No
Gypsum	13397-24-5	No	No	Yes	Yes	Yes	No
Portland cement	65997-15-1	No	Yes	Yes	Yes	Yes	No
Crystalline silica	14808-60-7	No	Yes	Yes	Yes	Yes	No

# Material Safety Data Sheet

Material Name: PLANIPATCH

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The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): WARNING! This product contains a chemical known to the state of California to cause cancer and reproductive/developmental effects.

## Canadian WHMIS Information

### A: General Product Information



D2A, E

### B: Component Analysis - WHMIS IDL

No components are listed in the WHMIS IDL.

## Additional Regulatory Information

### A: General Product Information

Supplier(s) of proprietary component(s) state that these components are contained on the TSCA inventory.

### B: Component Analysis - Inventory

Component	CAS #	TSCA	CAN	EEC
Calcium sulfate	7778-18-9	Yes	DSL	EINECS
Gypsum	13397-24-5	No	DSL	No
Portland cement	65997-15-1	Yes	DSL	EINECS
Vinyl versatate polymer	68683-26-1	Yes	DSL	No
Crystalline silica	14808-60-7	Yes	DSL	EINECS

## \* \* \* Section 16 - Other Information \* \* \*

### Reference

I5-4113-02

### Other Information

**Disclaimer:** Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use. The information herein is presented in good faith and believed to be accurate as of the effective date given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

### MSDS History

This MSDS has been revised in the following section(s):

- Section 2 - Hazards Identification
- Section 3 - Composition / Information on Ingredients
- Section 5 - Fire Fighting Measures
- Section 7 - Handling and Storage
- Section 8 - Exposure Controls / Personal Protection
- Section 15 - Regulatory Information
- Section 16 - Other Information

# Material Safety Data Sheet

Material Name: PLANIPATCH

ID: SAH00074

## Key/Legend

ACGIH = American Conference of Governmental Industrial Hygienists; ADG = Australian Code for the Transport of Dangerous Goods by Road and Rail; ADR/RID = European Agreement of Dangerous Goods by Road/Rail; AS = Standards Australia; BLV=Biological Limit Values; CAN = Canadian DSL and NDSL Inventories status; CAS = Chemical Abstracts Service; CC = Closed Cup; CFR = Code of Federal Regulations; DFG = Deutsche Forschungsgemeinschaft; DOT = Department of Transportation; DSL = Domestic Substances List; EEC = European Economic Community; EINECS = European Inventory of Existing Commercial Chemical Substances; ELINCS = European List of Notified Chemical Substances; EPA = Environmental Protection Agency; EU = European Union; g/L = grams per Liter; HMIS = Hazardous Materials Identification System; IARC = International Agency for Research on Cancer; IMO = International Maritime Organization; IATA = International Air Transport Association; MAK = Maximum Concentration Value in the Workplace; mg/kg = milligrams per kilogram; mg/L = milligrams per Liter; mg/m<sup>3</sup> = milligrams per Cubic Meter; NA, N/A, S.O. = Not available or Not Applicable; NDSL = Non-Domestic Substances List; NFPA = National Fire Protection Association; NIOSH = National Institute for Occupational Safety and Health; NJTSR = New Jersey Trade Secret Registry; NOHSC = National Occupational Health & Safety Commission; NTP = National Toxicology Program; OC = Open Cup; OSHA = Occupational Safety and Health Administration; STEL = Short-term Exposure Limit; TDG = Transportation of Dangerous Goods; TLV = Threshold Limit Value; TSCA = Toxic Substances Control Act; TWA = Time Weighted Average; TWAEV = Time Weighted Average Exposure Value; WHMIS = Workplace Hazardous Materials Information System

Contact: Product Safety Representative

Contact Phone: 1-954-246-8888

End of Sheet SAH00074



Eco 570

## **Floor Covering Installation Systems Limited Warranties for Products and Systems**

**Get MAPEI's Best-Backed™ Warranty in 2 simple steps:**

1. From the warranty document, choose the products you will use in your installation. You'll find helpful product information at [www.mapei.com](http://www.mapei.com).
2. Attach your receipts of purchase to a printout of the warranty that you have chosen, and keep these documents in your files for future reference.

Version 1.1.11



1-800-42-MAPEI (1-800-426-2734) • [www.mapei.com](http://www.mapei.com)

# “Standard” Product Performance Limited Warranty Length Table for MAPEI’s Floor Covering Installation Products

Product Category	1-Year Performance Warranty
Carpet Adhesives	<i>Ultrabond ECO® 85, Ultrabond ECO 20</i>
Resilient Flooring Adhesives	<i>Ultrabond ECO 511, Ultrabond ECO 611</i>
Moisture-Control Product	<i>Planiseal™ Easy</i>
Carpet Installation Accessories	<i>Ultrabond ECO 2085, Ultrabond® 2185, Ultrabond ECO 2285, Ultrabond 3085, Ultrabond ECO 3185, Ultrabond 4085</i>
Surface-Prep Products	<i>Planitex™ UNS, Planitex SL 35, Planipatch®, Ultra SkimCoat™, Planiprep™ FF, Planipatch Plus™, Novoplan® 2, Novoplan Easy, Ultraplan® Easy, Ultraplan 1 Plus, Mapecem® 100 with Planicrete® PM, Mapecem 100, Mapecem Quickpatch, Primer L™, Primer E™, Primer WE™, Primer T™</i>

*Note: A “Product Warranty” for the above named products applies to an individual product or product pairing from a single product category. All products shown must be installed according to their Technical Data Sheets and within their respective shelf life.*

# “Premium” Individual Product Performance Limited Warranty Length Table for MAPEI’s Floor Covering Installation Products

<b>Product Category</b>	<b>5-Year Performance Warranty</b>	<b>10-Year Performance Warranty</b>	<b>Limited Matching Lifetime Floor Performance Warranty</b>
<b>Carpet Adhesives</b>	<i>Ultrabond ECO® 185 Ultrabond ECO 810 Ultrabond ECO 420 Ultrabond® 385 Ultrabond ECO 120</i>	<i>Ultrabond ECO 285 Ultrabond ECO 220 Ultrabond ECO 885</i>	
<b>Resilient Flooring Adhesives</b>	<i>Ultrabond ECO 290 Ultrabond ECO 711 Ultrabond ECO 300</i>	<i>Ultrabond ECO 390 Ultrabond ECO 350 Ultrabond ECO 360 Ultrabond ECO 560 Ultrabond ECO 575 Ultrabond G21 Ultrabond G19</i>	
<b>Moisture-Control Products</b>	<i>Planiseal™ MRB</i>		<i>Planiseal WFM</i>
<b>Wood Installation Adhesives</b>	<i>Ultrabond ECO 960</i>	<i>Ultrabond ECO 970</i>	<i>Ultrabond ECO 995 Ultrabond ECO 990 Ultrabond ECO 980 Ultrabond ECO 975 Ultrabond ECO 985</i>
<b>Sports Flooring Adhesives</b>		<i>Ultrabond ECO 570 ✓ Ultrabond ECO 580 Ultrabond ECO 590</i>	

*Note: Warranty for the above premium products will follow “System Warranty” purchase remedy. All products shown must be installed according to their Technical Data Sheets and within their respective shelf life.*

*For complete warranty information on Planiseal EMB, contact MAPEI’s Technical Services Department.*

# “System” Limited Warranty Length Table for MAPEI’s Floor Covering Installation Products

Product Category	10-Year Performance Warranty	Limited Matching Lifetime Floor Performance Warranty
Carpet Adhesives	<i>Ultrabond ECO® 185</i> <i>Ultrabond ECO 810</i> <i>Ultrabond ECO 420</i> <i>Ultrabond® 385</i> <i>Ultrabond ECO 120</i>	<i>Ultrabond ECO 285</i> <i>Ultrabond ECO 220</i> <i>Ultrabond ECO 885</i>
Resilient Flooring Adhesives	<i>Ultrabond ECO 290</i> <i>Ultrabond ECO 711</i> <i>Ultrabond ECO 300</i>	<i>Ultrabond ECO 390</i> <i>Ultrabond ECO 350</i> <i>Ultrabond ECO 360</i> <i>Ultrabond ECO 560</i> <i>Ultrabond ECO 575</i> <i>Ultrabond G21</i> <i>Ultrabond G19</i>
Wood Installation Adhesives	<i>Ultrabond ECO 960</i>	<i>Ultrabond ECO 995</i> <i>Ultrabond ECO 970</i> <i>Ultrabond ECO 990</i> <i>Ultrabond ECO 985</i> <i>Ultrabond ECO 980</i> <i>Ultrabond ECO 975</i>
Sports Flooring Adhesives		<i>Ultrabond ECO 570</i> ✓ <i>Ultrabond ECO 580</i> <i>Ultrabond ECO 590</i>
Surface-Prep Products	<i>Planitex™ UNS, Planitex SL 35, Planipatch®, Ultra SkimCoat™, Planiprep™ FF, Planipatch Plus™, Novoplan® 2, Novoplan Easy, Ultraplan® Easy, Ultraplan 1 Plus, Mapecem® 100 with Planicrete® PM, Mapecem 100, Mapecem Quickpatch, Primer L™, Primer E™, Primer WE™, Primer T™</i>	

*Note: A “System Warranty” for the above named products requires using MAPEI products from at least 2 product categories to make up 100% of the layers under the final floor (wear) surface. All products shown must be installed according to their Technical Data Sheets and within their respective shelf life.*

# MAPEI's® Floor Covering Installation Systems: Product and System Limited Warranty

## WARRANTY COVERAGE:

MAPEI Corporation ("MAPEI"), subject to the terms and conditions set forth below, warrants that its product or system (as defined below) will be free from manufacturing defects and will not fail under normal usage for the applicable warranty period stated in the warranty length table attached to this warranty ("Warranty Length Table"), when used within its shelf life and in accordance with (1) our technical data sheets and other written instructions, (2) applicable building codes and regulations, and (3) standard industry practices. For purposes of this limited warranty ("warranty"), (a) a "system" is a group of MAPEI products used together in the same job installation that are set forth in the Warranty Length Table; (b) "residential" means a job installation utilizing one or more MAPEI products at a single-family detached dwelling; (c) "commercial" means a job installation utilizing one or more MAPEI products at multi-family residential projects (such as condominiums, cooperatives, apartments, timeshares and mandatory homeowner associations), public places and other commercial establishments; (d) it is the sole responsibility of the installer, general contractor, architect of record or owner, as a condition of warranty coverage, to first determine the suitability and compatibility of our product or system for the user's intended use; and (e) for any MAPEI system having a lifetime warranty period, a "lifetime" means for so long as the job installation remains unchanged by the original owner.

## PRODUCTS OR SYSTEMS OF PRODUCTS COVERED BY THIS WARRANTY:

Please refer to the Warranty Length Table that is attached to this warranty.

## EXCLUSIONS FROM WARRANTY COVERAGE:

The following are specifically excluded from coverage under this warranty: structural failure, inadequate subflooring, or improper subfloor preparation; damages caused by Acts of God, including, but not limited to hurricane, flooding, earthquake or other types of natural disaster, or as a result of unforeseen circumstances; acts of negligence, or product misuse or abuse; failure to comply with our technical data sheets and other written instructions, applicable building codes and regulations, and standard industry practices; variations of color, shade or texture from those shown on samples, product packaging or any other marketing materials; changes in color due to exposure to sunlight and age; subfloor moisture or water damage; normal wear and tear resulting from usage; efflorescence and shading inherent in all cementitious products; and cracking due to structural movement, excessive deflection or other failure of the substrate.

## YOUR LEGAL RIGHTS:

This constitutes your entire express warranty for the product or system purchased. To the extent permitted by law, all other warranties, whether express or implied, including, but not limited to the implied warranties of **MERCHANTABILITY** and **FITNESS FOR A PARTICULAR PURPOSE** are EXCLUDED. ANY IMPLIED WARRANTIES ARISING BY OPERATION OF LAW ARE LIMITED IN DURATION TO THE TERM OF THIS WARRANTY, BUT SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU. No implied warranty can be modified by any course of dealing, course of performance or usage of trade. This warranty gives you specific legal rights and you may also have other rights which vary from state to state. This warranty: (a) shall commence on the date of purchase of our product or system and shall end as specified in the Warranty Length Table; (b) is limited to the original purchaser and is nontransferable; (c) replaces all previous warranties; and (d) applies only to purchases and installations within the United States on or after January 1, 2011.

## FILING A CLAIM:

To file a claim under this warranty, you must contact us, in writing, within fifteen (15) calendar days of the discovery of the alleged manufacturing defect in our product or system, at MAPEI Corporation, Attn: Technical Services Department, 1144 East Newport Center Drive, Deerfield Beach, Florida 33442. Proof of purchase must be submitted with any notice of claim. We have the right to physically inspect an installation site and obtain samples from that job installation and of our product or system used in that installation before we determine the validity of your claim. Your claim must be received and evaluated by us before any repair or replacement work is performed; otherwise, this warranty will be null and void. For additional information regarding our warranty policy, please refer to our website at [www.mapei.com](http://www.mapei.com).

## YOUR EXCLUSIVE REMEDY:

If our product or system is proven defective within the applicable warranty period shown in the Warranty Length Table, then for a product-only purchase, you will receive, as your sole remedy, MAPEI replacement product for only that specific portion of the original installation requiring replacement; and for system purchases, you will receive, as your sole remedy, MAPEI replacement product and reimbursement of your reasonable and substantiated costs and labor for only that specific portion of the original installation requiring replacement.