

Technical Data & Installation

#### **Product Overview**

Collegiate is a recycled/crumb rubber product that is comprised of a unique blend of post-consumer Styrene Butadiene Rubber (SBR), and Ethylene Propylene Diene Monomer (EPDM) Rubber to create a wide variety of colors

and patterns. Collegiate is available in a 8mm thickness as a roll. Collegiate is ideal for weight rooms, athletic facilities and corporate gyms. However, Collegiate can be used in a number of other commercial spaces as well, such as offices,

break rooms, classrooms, libraries or any other area where a durable, flexible and sustainable product is needed. Collegiate is Declare Label Red List Free, FloorScore certified and is manufactured in the USA.

#### **Features**

### Manufactured From Recycled Material

#### Shock & Impact Resistance

- Superior Slip Resistance
- Superior Durability
- Soft & Supportive Under Foot
- Qualifies for LEED® Credits
- FloorScore® Certified
- Declare™ Labeled, Red List Free
- CA Section 01350 Complaint

### **Technical Data**

Standard Roll Width: 4' (52" untrimmed)

Standard Roll Length: 25'
Thicknesses (mm): 8
Weight / Sq. Ft.: 3.8 lbs.
Surface: Textured

ASTM F3041 - Bonded Crumb Rubber: Type 1 Class A,B,C
ASTM D3389 - Abrasion Resistance: Passes, <1g Loss

ASTM F137 - Flexibility: Passes

ASTM F970 - Static Load Limit: Passes, 250 lbs.

ASTM F2157 -Vertical Deflection/Deformation: **0.7mm**ASTM E303 - Surface Finish Effect: **Pass** 

ASTM F2117 - Ball Rebound: 99.7% ASTM F2559 - Force Redcution: 12%

ASTM C518 - Thermal Resistance "R": 0.10 F-ft2-h/Btu
ASTM F925 - Chemical Resistance: Passes (chart available)

ASTM D412 - Tensile Strenght: >200 PSI

ASTM E648 (NFPA 253) - Critical Radiant Flux: Class I, >0.45 W/cm<sup>2</sup>

ASTM D2859 Flammability:

ASTM D2047 - Slip Resistance:

ASTM E492/E989 - Impact Insulation:

ASTM E90 / E413 - Airborne Sound:

ASTM E2179 - Delta Impact Insulation:

AIIC 22\*

CHPS / CA Section 01350:

LBC Red List 3.0 Chemicals:

None

Pre-Consumer Recycled Content: XPOSt-Consumer Recycled Content: XPOSt-Consumer Recycled Content: XPOST-CONSUMER RECYCLED ACCLIMATION TIME: XPOST-CONSUMER RECYCLED ACCLIMATION TO THE PROPERTY ACCLIMATION TO THE PROPERTY ACC

Acclimation Time: 48 Hours
Storage & Acclimation Conditions: 65° - 85° F

\* 6" concrete, no ceiling

### **Additional Information**

#### **Approved Adhesives**

Gold Series MA 2000 Spray Adhesive\*
Gold Series MW 3012 MS Adhesive

#### **Approved Finishes**

Hilway Direct Plus Acrylic Finish\*

Accessories

Matching acrylic caulk is available for all Collegiate colors. For more information,

see the ColorRite Caulk Overview technical bulletin or contact a sales agent or email sales@capricollections.com.

#### Sales & Technical Support

Capri products are sold through a nationwide network of sales agents - to find your local representative, email sales@capricollections.com. Additional

technical resources and documents are available online at **capricollections.com**. For additional technical support, e-mail **support@capricollections.com**.

<sup>\*</sup> See product limitations for restrictions



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#### 1. PRE-INSTALLATION

- Consult all associated technical data for all related products and procedures, including adhesive, maintenance and warranty documents, prior to installation.
- Allow all trades to complete work prior to installation.
- Deliver all materials to the installation location in their original packaging with labels intact.
- Do not stack pallets to avoid damage.
- Remove all plastic and strapping from product after delivery and inspect for visible or obvious damage.
- Unroll all rolled material and allow to relax for at least 24 hours prior to installation.
- Ensure that all adhesives intended for installation are approved for use with flooring material.
- Ensure installation area and material storage conditions are between 65° F (19° C) and 85° F (30° C) for at least 48 hours before, during and after installation.
- Ensure HVAC system is operational and fully functioning at normal operating conditions.
- Protect installation area from extreme climate changes, such as heat, freezing, humidity, and direct sunlight, for at least 48 hours prior, during and 48 hours after installation.
- Ensure all substrate preparation requirements have been performed, read and/or understood by all interested parties.
- Do not proceed with installation until all conditions have been met.

#### 2. PRODUCT LIMITATIONS

Do not install materials directly over LVT, cushioned vinyl, hardwood flooring, cork flooring, rubber flooring or asphaltic materials. Do not install flooring materials outdoors, in and around commercial kitchens or areas that may be exposed to animal or vegetable fats and oils or

petroleum-based hydrocarbons. Do not install in areas that may be subjected to sharp, pointed objects, such as skates or spikes. When installing in areas that may be exposed to ice skates, ensure skate quards are worn. When installing in areas where heavy machinery, equipment, weights, barbells or dumbbells will be used, ensure material is at least 8mm thick. When installing in entry areas or areas that may be continuously exposed to topical moisture, ensure the Capri Gold Series MW 3010 or MW 3012 adhesive is used. When installing in areas that will experience heavy usage, heavy rolling loads and extremely heavy weight(s), ensure the Gold Series MW 3012 adhesive AND the Loba Supra AT finish is used. Do not allow product to be directly exposed to extreme heat sources, such as radiators, ovens or other highheat equipment. Do not install in areas that may be exposed to repeated and sustained UV light, as product may fade or discolor. Material may be susceptible to staining from rubber tires, casters or rubber-backed walk-off mats, as well as harsh disinfectants, cleaning agents, dyes or other harsh chemicals - ensure all chemicals and materials that may come in contact with flooring surface will not stain, mar or otherwise damage the flooring material prior to use.

#### 3. SUBSTRATE PREPARATION

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

All substrates must have all existing adhesives, incompatible materials, contaminants or bond-breakers

mechanically removed via scraping, sanding or grinding prior to adhesive installation. In some situations, shotblasting may be required. Mechanical preparation must expose at least 90% of the original substrate. When mechanically preparing concrete and silica containing materials, follow all applicable Occupational Safety and Health Administration (OSHA) standards.

Do not use solvent/citrus adhesive removers. Follow The Resilient Floor Covering Institute's (RFCI) "Recommended Work Practice for Removal of Existing Floor Covering and Adhesive", and all applicable local, state, federal and industry regulations and guidelines. When removing asbestos and asbestos containing materials, follow all applicable Occupational Safety and Health Administration (OSHA) standards. Following the removal of existing materials, mechanical preparation and/or cleaning, all substrates must vacuumed with a flat vacuum attachment or damp mopped with clean, potable water to remove all surface dust. Sweeping without vacuuming or damp mopping will not be acceptable.

All potentially porous substrates must be tested per ASTM F3191 to confirm porosity. All substrates that do not meet porosity requirements are considered non-porous. Ensure that all non-porous substrates are not contaminated with aforementioned contaminates and that all installation guidelines for non-porous substrates are followed.

All substrates must have a floor flatness of FF32 and/or a flatness tolerance of 1/8" in 6' or 3/16" in 10'. Substrates that do not meet this requirement should have a compatible repair product, patch or self-leveling underlayment installed to prevent telegraphing and installation issues.

#### **CEMENTITIOUS SUBSTRATES**

All cementitious substrates, including self-leveling underlayments, must have a minimum compressive strength of 3000 PSI and be prepared in accordance with ASTM F710 and ACI 302.2R. When flooring is being installed directly over



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concrete, surfaces that have an ICRI Concrete Surface Profile (CSP) of 5 or more should be smoothed with a self-leveling underlayment or a cementitious patch to prevent imperfections from telegraphing through flooring materials. On or below grade concrete must have a permanent, effective moisture vapor retarder installed below the slab.

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

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

If ASTM F2170 or ASTM F1869 test results exceed the prescribed limits, a moisture mitigation product must be installed prior to proceeding with installation. Do not install flooring until moisture testing has been conducted per the appropriate standard and/or moisture mitigation has been installed and is dry to the touch. Do not install flooring in below grade areas when hydrostatic pressure is visible or suspected.

#### **LIGHTWEIGHT/GYPSUM SUBSTRATES**

Lightweight or gypsum substrates must have a minimum compressive strength of 2000 PSI when installed over a wood substrate or 3000 PSI when installed over a concrete substrate. Lightweight or gypsum substrates must be installed and prepared in accordance with ASTM F2419 or ASTM F2471, respectively. Lightweight or gypsum substrates that do not meet these requirements should be strengthened with a compatible repair product to improve the compressive strength of the substrate. Substrate must be structurally sound and firmly bonded to subfloor. All cracked or fractured areas must be removed and repaired with a compatible repair product. New or existing substrates may require a sealant

or primer be installed prior to resilient floor installation. Follow the substrate manufacturer's recommendations regarding preparation for resilient flooring.

#### **WOOD SUBSTRATES**

Wood substrates must be compliant with and prepared in accordance with ASTM F1482. Wood substrates should be of double layer construction with a recommended total thickness of 1" or more (depending on federal, state and local building codes). For standard installations, the top layer must be an APA Underlayment Grade plywood or equivalent with a minimum thickness of 1/4". Plywood must be smooth, free of knots or voids and fully sanded. When floors may be subjected to moisture, use an APA approved exterior grade plywood.

#### **Moisture Limits**

#### Gold Series MA 2000 Spray Adhesive

- 95% RH
- 10 lbs. MVER

#### Gold Series 3012 MS Adhesive

- 95% RH
- 8 lbs. MVER

Other wood subfloor materials, such as CDX, OSB, lauan, particleboard, chipboard, fiberboard or cementitious tile backer boards, are not acceptable substrates. Do not use preservative-treated and fire-retardant plywood, as some may be manufactured with resins or adhesives that may cause discoloration or staining of the flooring. Do not install flooring directly over solid or engineered hardwood flooring without first installing plywood or a suitable cementitious repair product at a minimum thickness of 1/4" over the hardwood flooring.

Wood subfloor deflection, movement, or instability may cause the flooring installations to release, buckle or deform. As such, do not use a plastic or resin filler to patch cracks. Do not use cement or rosin coated nails and staples or solvent-based construction adhesives to adhere the plywood. Do not install resilient

flooring directly over a sleeper system (wood subfloor over concrete) or Sturd-I-Floor panels.

#### **RESINOUS SUBSTRATES**

When installing directly over a resinous products, such as an epoxy coating, ensure the coating is dry to the touch and has cured for the prescribed length of time. Substrate must be clean, dry, sound and free of contaminates. Be sure to follow adhesive installation procedures and trowel sizes for non-porous substrates. This may require abrasion of the resinous coating.

#### **METAL SUBSTRATES**

Metal substrates must be thoroughly sanded/ground to remove all residue, oil, rust and/or oxidation. Substrate must be smooth, flat and sound prior to installation. When installing in areas that may be subject to topical water, moisture and/or high humidity, an anticorrosive coating should be applied to protect metal substrate. Contact a local paint or coating supplier for coating recommendations. Install material within 12 hours after sanding/ grinding to prevent re-oxidation. Deflection in the metal floor can cause a bond failure between the adhesive and the metal substrate. Be sure to follow installation procedures and trowel sizes for non-porous substrates.

#### **EXISTING FLOORING SUBSTRATES**

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

#### RADIANT HEATING SUBSTRATES

When installing flooring over a substrate that contains a radiant heating system, ensure the radiant heat is no higher than 70° F (21° C) 48 hours prior to and during the entire installation. 48 hours after installation, the radiant heat may be gradually increased over the course of 24 hours, until normal operating temperature is reached. Ensure the temperature of the radiant heating



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system does not exceed 85° F (29.5° C) and avoid making abrupt changes in radiant heating temperature.

#### 4. CONSTRUCTION JOINTS & CRACKS

All cracks, construction joints and other voids, as well as the areas surrounding them, must be clean and free of dust, dirt, debris and contaminants. All minor cracks 3/64" wide or less must be repaired with a compatible cementitious patch.

Due to the dynamic nature of concrete, manufacturer cannot warranty installations directly over construction joints (such as control cuts or saw joints), expansion joints, cracks or other voids wider than 3/64". Construction joints, expansion joints or cracks wider than 3/64" must have a suitable crack repair or joint repair system installed per the below recommendations.

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

To treat construction joints and surface cracks over 3/64", chase joint or void with a suitable saw or grinder and clean all dust, dirt and debris from crack. Fill entire crack with a rigid crack treatment designed for use in construction joints or cracks. Follow material manufacturer's instructions for installation. Ensure surface is troweled flush with surface of concrete.

Consult a project engineer or architect prior to treating cracks or joints, especially those that may affect structural integrity (such as expansion joints). Review all manufacturer installation instructions and/or consult

manufacturer technical staff for all crack or joint filling products prior to treating construction joints and cracks.

#### 5. ROLL PREPARATION

Ensure rolls have been unrolled and flipped over in an acclimated environment for at least 24 hours prior to trimming rolls, in order to prevent shrinkage, roll memory and curling. Be sure to flip rolls back over prior to trimming. Inspect each roll of material prior to trimming to verify that there are no visible defects, damages or excessive shading variations. Some flooring products, colors and textures have latent and acceptable color and shade variations. If there are concerns regarding shade or color variation, do not install material and consult a sales representative and manufacturer's technical staff. Material installed with obvious visual defects will not be covered under warranty.

Ensure substrate is clean, dry, sound and suitably prepared prior to installation. Square the room using the 3-4-5 squaring rule or similar method to establish and mark initial installation starting line. Measure and determine room layout and seam location prior to cutting material.

The outer-packaging of each roll is labeled in sequence numerically. As such, material should be cut and installed in sequence. When installation run lengths exceed the length of the roll, install rolls in sequence length-wise in the direction they are unrolled (see below). Ensure seams have a consistent visual appearance at edges so that color variations blend as seamlessly as possible. Failure to follow correct roll sequencing could cause excessive shade variation or gapping at seams.

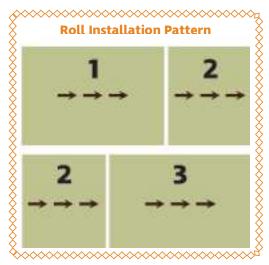
Collegiate rolls can be directly butted together without trimming side seams when installed in full rolls and sequenced correctly. Head seams must be staggered by 6' – 10' (depending on room size and roll length) and must be cut prior to installing material with adhesive. When cutting multiple pieces from one roll, cutting head seams or when tighter side seams are desired, the material must be overlapped and double cut or trace cut to provide a more seamless appearance.

#### Overlap & Double or Trace Cut Method

Overlap one roll over the other by 34". Set a straight edge along the top roll, making sure it is sitting flat and flush, not at an angle. Cut through both sheets of material, ensuring that the knife blade is straight and vertical. Alternately, a seam cutter (such as a Wolff Green Cut) can be used to trace cut the top roll. Prevent stretching or moving material, as multiple cuts may be required to cut through one or both sheets. Once cut, remove cut pieces and visually inspect the seam for tightness. Seam should be tight, but not over-compressed.

Alternately, the seams can be filled with a matching ColorRite Caulk color following installation. See section 11 for more information.

Once cut, overlap seams by ~1/16" and allow material to acclimate for 24



hours to ensure tight seams during final installation. Ensure flooring seams do not directly overlap seams in substrate.

Ensure material around perimeter is 1/8" from wall or less, depending on depth of wall base or trim. Cut borders and other specialty pieces to fit snugly against or around walls, thresholds, transition strips, fixtures and other protrusions or accessories. Avoid forcing material tightly against vertical surfaces, as material may buckle.

#### 6. ROLL INSTALLATION

Ensure substrate is suitably prepared prior to installation, as manufacturer is not responsible for substrates that have



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not been properly prepared and tested for moisture. Ensure adhesive is approved for use with flooring material and the proper trowel type and size is used, as manufacturer is not responsible for all adhesion issues related to improper adhesive selection or usage.

Ensure all seams are cut and laid out per Section 8. Inspect seam transitions to ensure that color is consistent and seam is hardly visible. Once all seams have been cut and material has relaxed and acclimated, carefully fold back half of material and apply adhesive according to instructions for specific product in use. Once adhesive has been applied and flashed, carefully roll material back into adhesive to avoid trapping air between the adhesive bed and the material. If adhesive is oozing out of seams or material is shifting excessively, adhesive may be too wet for installation. Review open times and allow adhesive to flash longer prior to installing material into adhesive and remove adhesive from

#### Adhesive Spread Rates

Gold Serie MA 2000 Spray Adhesive

• 115 sq. ft. / unit

#### Capri 3012 MS Adhesive

- ≤ 4mm: 235 sq. ft. / gallon
- > 4mm: 165 sq. ft. / gallon

#### material immediately.

Do not work on material that is installed into wet adhesive, as this could displace adhesive. **Working on material that is installed into wet adhesive could cause adhesive to displace.** When working off of material is not possible, use a kneeling board or equivalent to disperse weight evenly and prevent adhesive displacement.

Roll installation area with a 3 section, 75 lb. roller within 30 minutes of installation, crossing in a perpendicular direction after initial roll. Re-roll material 30 minutes after initial roll. Clean excessive adhesive or adhesive residue from the surface of the material according to adhesive instructions.

Periodically lift material to ensure proper adhesive transfer and ensure adhesive

has not surpassed the open time – adhesive should cover 90% of material. Pay close attention to open times and flash times to avoid adhesion issues. This may require installing material in smaller sections. Replace trowels and applicators at recommended intervals to maintain proper trowel ridge and spread rate.

To ensure tight seams and prevent movement, dust, dirt, debris and topical moisture from getting into seams, tape all seams together after installation using a residue-free releasable tape that is intended for flooring and hard surfaces (such as 3M multi-surface "blue" tape).

Material towards the inside end of the roll may have minor edge-lifting and curling on end seams or butted seams – if this is evident after installation, use weight to weigh down edges.

#### 7. POST-INSTALLATION

Visually inspect installation to ensure that material has not shifted and that adhesive has not been squeezed out of joints or compressed onto surface. Clean excessive adhesive or adhesive residue from the surface of the material per adhesive recommendations. Do not used mineral oils to clean flooring materials, as material may become permanently discolored. Do not apply abrasive or solvent based cleaners directly to material.

#### 8. INITIAL MAINTENANCE

Ensure that adhesive has cured for recommended period of time prior to conducting initial maintenance. Remove all protective coverings prior to cleaning. Sweep or dust mop and vacuum flooring to remove all dirt, dust or debris.

Mix 6 - 7 oz. of Hilway Direct Neutral Cleaner per gallon of warm and clean potable water (1:20) and use a clean mop to apply cleaning solution to area. Let solution stand for 5-10 minutes.

Using a low-speed (180 – 360 RPM) floor buffer or swing single disc scrubber, Scrub the floor while wet using a 22 gauge soft bristled scrubbing brush or a 3M 5100 Red Cleaning Pad. If flooring is heavily soiled, an additional cleaning may be required.

Use a wet vacuum or clean mop to remove

all excess cleaning solution. Rinse area with clean, cool water and ensure that all cleaning residue has been removed (this may require additional rinsing). Allow area to dry completely before allowing foot traffic.

To ease maintenance and protect the surface of the material, Collegiate may have a floor finish installed following installation and initial maintenance.

For additional information regarding maintenance, please see the associated Care & Maintenance document.

#### 9. COLORRITE CAULK INSTALLATION

In some cases, ColorRite acrylic caulk may be used to fill minor gaps between seams or caulk around vertical surfaces and fixtures. Ensure that initial maintenance has been performed and that a finish has not been applied prior to using the ColorRite caulk. Use a residue-free releasable tape (such as 3M multi-surface "blue" tape) to cover both sides of the seam or the perimeter of the flooring material and the adjacent vertical surface / fixture to prevent over-spread.

Once tape is applied, use a suitable caulk gun to apply ColorRite into the gap or void. Use a plastic putty knife to spread the caulk into the gap or void, ensuring caulk is smooth and flush with the blue tape. The caulk should be slightly higher than the flooring material.

Immediately after application, remove blue tape and any excess caulk from the flooring material. Caulk will take 30-60 minutes to dry - avoid foot traffic until fully dry. ColorRite caulk must have finish applied, especially when applied in the field of a flooring installation - allow caulk to cure overnight prior to applying finish.

#### 10. INITIAL FINISH APPLICATION

Ensure that initial maintenance has been conducted prior to applying the Hilway Direct Plus floor finishes. Flooring area must be free of dust, dirt, debris, adhesive or cleaning residues and all potential contaminates. **Do not** dilute finish or apply to surfaces below 50° F.

Shake floor finish container vigorously prior to application. Use a microfiber mop



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or equivalent to apply finish in a thin, even film per the installation instructions in 2 - 3 coats, applying each coat in a perpendicular direction to the previous coat. Allow each coat to dry completely before applying additional coats.

Once the second coat is dry, evaluate the floor to determine if an additional coat is necessary. If heavy use is expected, a third coat is recommended. Allow the final coat of finish to dry overnight before allowing normal traffic. Wait 24 hours before allowing heavy traffic and rolling loads.

For additional information regarding floor finish and application, please see the care & maintenance document or the finish Technical Data Sheet.

#### 11. FLOORING PROTECTION

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

All furniture casters or glides must be intended for resilient flooring and made of a soft material (such as a felt, rubber or a poly-based material). Casters and glides must have a flat contact point that is at least 1 sq. in. or 1.125 in. in diameter to limit indentation and flooring or finish damage. All rolling seating in desk areas must have a resilient flooring chair pad installed over the finished floor to protect floor covering. **Do not use nylon/hard plastic glides or casters.** 

All fixed furniture legs or corners must have permanent floor protectors installed on all contact points to reduce indentation, wear, scratching and other flooring or finish damage. Floor protectors must be intended for resilient flooring and made of a soft material (such as a felt, rubber or a poly-based material). Floor protectors must have a flat contact point of at least 1 sq. in. or 1.125 in. diameter and must cover the entire bottom surface of the furniture leg. **Do not use nylon/hard plastic floor protectors or furniture feet.** 

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

Place walk-off mats at outside entrances. Prevent water and moisture from accumulating underneath walk-off mats. Ensure mats are manufactured with nonstaining backs to prevent discoloration

#### 12. WARRANTY

Capri provides a 10 Year Commercial Warranty and a 15 year Residential Warranty for all Collegiate recycled rubber products. For additional information, see associated warranty documents.

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