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I Part One - General

1.01 RELATED SECTIONS

Spec Note: List appropriate Sections for related work specific to project

Refer to Manufacturers Installation Manual for complete information on receiving, installing, and maintaining Fitness Flooring DécorTile

.A Section 15[] 16[]: Floor access covers, drains.

1.02 REFERENCES

- .A ASTM D2240, Rubber Property Durometer Hardness.
- .B ASTM D395, Rubber Property Compression Set Method B.
- .C ASTM C 501, Taber Abrasion.
- .D ASTM D412, Rubber Properties in Tension.
- .E ASTM C 1028, Co-Efficient of Friction.
- .F ASTM D624, Test Method for Rubber Properties.
- .G ASTM D 570, Moisture Absorption.
- .H ASTM E648-03, Critical Radiant Flux.
- .I ASTM F970-00, Static Load Limit
- .J ASTM E662, Optical Density of Smoke

1.03 SUBMITTALS

- .A Submit samples in accordance with Section [] - [].
- .B Submit duplicate 12 in. x 12 in. sample pieces of sheet material.
- .C Submit Material Safety Data Sheets for installation adhesives, cleaners and sealers.
- .D Submit layout drawing of flooring [tiles] to [Owner] [Consultant] [Engineer] for review prior to starting any work.

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1.04 CLOSEOUT SUBMITTALS

- .A Provide maintenance data for resilient flooring for incorporation into manual specified in Section [] – [].

1.05 EXTRA MATERIALS

- .A Provide extra materials of resilient sheet flooring and adhesives in accordance with Section [] – [].
- .B Provide [] sq. ft., [%] of each [color], of flooring material required for project for maintenance use.
- .C Extra materials to be in one piece and from same production run as installed materials.
- .D Clearly identify each type of sheet flooring and each container of adhesive.
- .E Deliver to [Owner] [Architect], upon completion of the work of this section.
- .F Store where directed by [Owner] [Architect].

1.06 DELIVERY, STORAGE AND HANDLING

- .A Deliver flooring materials undamaged with manufacturer's labels intact.
- .B Store flooring materials in a protected area on site a minimum of 24 hours prior to installation.
- .C Store rubber flooring materials flat, blocked off floor.
- .D Prevent damage or contamination to flooring materials from water, moisture, freezing, excessive heat, direct sunlight and construction dust or dirt.
- .E Protect flooring materials from construction activities. Provide tarpaulins or plastic coverings blocked to allow ventilation and prevent contamination from dust or debris.

1.07 ENVIRONMENTAL REQUIREMENTS

- .A Maintain air temperature and structural base temperature at flooring installation area above 60 degrees F and below 85 degrees F for 48 hours before, during and 72 hours after installation.
- .B Maintain a maximum relative humidity of 65% before, during and for 72 hours after installation.

1.08 WARRANTY

- .A Supply manufacturer's standard limited warranty against defects in materials or workmanship for 5 years for Décor from date of purchase.
- .B Supply manufacturer's standard limited warranty against wear exceeding 1% per year when recommended installation and maintenance guidelines are followed.
- .C Warranty is void if solvent based adhesive is used for the installation of Décor tiles.

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II Part Two - Products

2.01 SOURCE QUALITY CONTROL

Spec Note: Select appropriate product(s) and/or option listed in brackets

A. Solid Colored Rubber Flooring Tile:

- .1 Wearing Surface: 3/32 in. colored virgin blend rubber \pm 9/32 in.
- .2 Size: 35.5 in x 35.5 in \pm 1/32 in. tolerance
- .3 Backing: 60% natural/SBR rubber blend, 40% recycled rubber
- .4 Pattern: Marbleized.
- .5 Finish: Textured non-slip.
- .6 Thickness: 3/8 in. \pm 1/32 in. tolerance
- .7 Color:
 - .1 Solid: [Dark Grey with black] [Light Grey with black] [Red with black] [Black with tan] [Dark Blue with tan] [Forest Green with tan] [Chocolate with tan] [Beige with chocolate] [Mocha with tan] [Purple with tan] [color indicated] [selected by [Engineer] [Consultant].
 - .2 TriColor Swirl: [Rainbow – black with mixed] [Earthtone – black with mixed] [color indicated] [selected by [Engineer] [Consultant].

Colors will be matched to within \pm one tone on the pantone chart

- .8 Material Properties:
 - .1 Shore Hardness: ASTM 2240, 80.25 (top) 71.75 (bot).
 - .2 Compression Set: ASTM D395, 9.93%.
 - .3 Taber Abrasion: ASTM C501, 321.2 mg/1000 (.256 g weight loss).
 - .4 Tensile Strength: ASTM D412, Top 1596.4 psi, Bottom 380.4 psi.
 - .5 Co-Efficient of Friction: ASTM C1028, 0.93 dry, 0.84 wet.
 - .6 Elongation at Break: ASTM D412, 334.3 Top/Bot 139.6.
 - .7 Tear Resistance: ASTM D624, 120.8 lbs/in.
 - .8 Moisture Absorption: ASTM D570, 0.37%.
 - .9 Critical Radiant Flux: ASTM E648-03, 0.92.
 - .10 Static Load Limit: ASTM F970-00, 500 psi
 - .11 Optical Density of Smoke ASTM E662, PASS
- .9 Acceptable product: "Décor" tiles as manufactured for Fitness Flooring, Inc.
6801 Lake Plaza, A105, Indianapolis, IN 46220
Phone 1-800-428-5306 Fax 1-317-842-5384
E-mail sales@fitnessfloors.com

2.02 ACCESSORIES

- .A Bevelled Edging: Black vinyl transition ramp edging as available from flooring manufacturer.
- .B Floor Filler: Cement based leveling compound. Recommend Mapei Planipatch, Planipatch-Plus or acceptable substitution.

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- .C Adhesive: Single component or 2-part, SportFLOOR Adhesive, solvent free urethane adhesives as recommended by manufacturer. (Do not use solvent based adhesives.)
See warranty re alternate adhesives.
- .D Initial Cleaner: PH neutral bio-degradable cleaner, diluted in clean water to manufacturers specification.
 - Recommended product: Taski “Profi” or similar product
- .E Floor Finish (if required only): (Fitness Flooring DécorTile does not require an applied finish.)
 - Recommended product (if required): Taski “Wiwax” or similar product.
 - An applied finish may alter the surface characteristic of the floor.
- .F Maintenance Cleaner: PH neutral bio-degradable cleaner diluted in clean water to manufacturers specification.

III Part Three - Execution

3.01 SITE VERIFICATION OF CONDITIONS

- .A Examine floor areas to be covered and report any deficiencies to the Contractor. Do not proceed with installation until substrates and conditions comply with manufacturer's requirements for installation.
- .B Ensure floor substrate is clean and dry by using test methods recommended by flooring manufacturer.
- .C Ensure building area for flooring application is maintained at minimum 60 degrees F, maximum 85 degrees F and at maximum 65 % relative humidity for minimum 48 hours before installation, during installation and for minimum 72 hours after completion of work.

Spec Note: Select appropriate substrate preparation

3.02 WOOD FLOOR PREPARATION

- .A Ensure wood sub floor material is CDX exterior plywood installed smooth side up.
- .B Caulk all nail, staple or screw fasteners and seal with epoxy sealant.
- .C Acclimatize sub floor for minimum 48 hours before installation of flooring tile.
- .D Ensure sub floor is clean, dry and free of dust, dirt and any contaminants and previous floor finishes.
- .E Patch cracks, holes and rough or uneven areas with manufacturer's recommended cement based leveling compound.

3.03 CONCRETE FLOOR PREPARATION

- .A Ensure sub floor is smooth and level to a tolerance of 1/8 inch in 6 ft.
- .B Ensure concrete floors have cured for minimum 6 weeks.
- .C Perform moisture test recommended by flooring manufacturer on concrete floor.

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- .1 Poly File Test: Tape a sheet of plastic over a section of the concrete floor. Wait for 72 hours. Check for moisture droplets under the plastic sheet.
- .2 Calcium Chloride Test: Perform quantitative test, maximum 3 lbs moisture emissions per 24 hours per 1000 sq. ft.
- .D Ensure existing concrete floors are clean, dry and smooth.
- .E Remove any wax, paint, varnish, adhesive or any other material that would prevent proper bonding of adhesive.
- .F Repair any low spots with a cementitious based latex patch mix.
- .G Fill and smooth any rough or porous concrete sub-base prior to installing flooring.
- .H If concrete sealers have been applied, two-part solvent-free floor adhesive must be used.

3.04 APPLICATION: FLOORING

- .A Apply adhesive uniformly using recommended trowel and application rate. Ensure a minimum 85% transfer from the floor to backing of flooring.
- .B Do not spread more adhesive than can be covered by flooring before initial set takes place.
- .C Lay flooring in a [running bond (staggered) pattern] [point to point (stacked) pattern] installation with [color swirls orientated in the same direction] [color swirls orientated in alternating directions]. Lay out to produce a minimum number of seams. Border widths minimum 1/3 width of full material.
- .D Adjoin factory edge to factory edge of tiles. Install cut edge of tiles along walls or vertical surfaces.
- .E Ensure joints are tight. All joints should be secured to prevent gaps, by applying masking tape across the joint onto adjoining tiles until adhesive has cured.
- .F Lay tiles in small sections and roll with a 100 lb. sectional roller within 15 minutes of laying to ensure proper adhesive contact.
- .G Cut tiles neatly around fixed objects, and to fit irregular and fill-in spaces using a sharp utility knife. Make repeated passes when cutting to ensure straight cuts.
- .H Flooring installed around any irregular or sloped surface (i.e., around drains), should be weighted with bricks to ensure proper bonding of flooring to adhesive.
- .I Continue flooring through areas to receive movable type partitions without interrupting floor pattern.
- .J Terminate flooring at centreline of door openings where adjacent floor finish or color is dissimilar.
- .K Install edge strips at unprotected or exposed edges where flooring terminates.
- .L Promptly clean adhesive from top surface of tiles using a soft cloth soaked in denatured alcohol.
- .M Prevent traffic on flooring for minimum 24 hours after installation.

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3.05 CLEANING AND MAINTENANCE

.A Initial Cleaning:

- .1 Do not proceed with cleaning until 48 hours (min.) after installation.
- .2 Sweep and vacuum tiles to remove all loose dirt and debris.
- .3 Ensure petroleum based cleaners are not used.
- .4 Apply approved floor cleaner diluted with clean water, as per manufacturer's instruction, using a mop. While still wet, scrub floor using a rotary buffing machine equipped with a medium 'Scotch Brite' pad.
 - Work in small areas of floor at a time
 - After scrubbing, remove wet residue using a wet-dry vacuum.
 - Damp mop floor with clean water to rinse and repeat wet-dry vacuum
 - Repeat cleaning as required to remove any remaining mold release or sediment.
 - Prohibit foot traffic on flooring until area is dry.

B Floor Finishing: *Complete if required in project*

A finish may alter the surface characteristic of the tile

Apply floor finish for rubber flooring according to instructions and application rate recommended by manufacturer.

.C Regular Cleaning:

- .1 Clean flooring on a regular basis with a damp mop (not soaking wet) using a PH neutral cleaner diluted in water.
- .2 Ensure that any moisture is immediately extracted after cleaning.

3.06 PROTECTION

- .A Protect and cover new floors from damage until final inspection.
- .B Prohibit traffic on floor for 24 hours after installation.
- .C Provide ventilation to installation area during installation and for minimum 72 hours after completion of work.

END OF SECTION