

09 65 16 – Rubber Flooring

DIVISION 9 - Finishes



STATEMENT OF PURPOSE & BACKGROUND

- Scope:
 - Selection, installation and preparation of rubber sheet and tile flooring.
- Statement of goals: See 09 60 00 – Floor Finishes for specific applications.
- Revision history of section:
 - 11/16/15
 - 02/27/19
 - 01/13/21

SELECTION AND APPLICATION CRITERIA

Criteria	Performance
Hardness ASTM D2240	≥ 82 Shore A
Static Load Limit, ASTM F 970	Residual indentation of ≤0.005 inches @ 800 PSI
Coefficient of Friction ASTM D2047	≥0.75 is required
VOC Emissions	Greenguard Gold certification preferred
Composition	Homogeneous rubber compound
Wear Warranty	Maximum 0.0035" wear per year for 5 years
Thickness	3mm minimum, typical
Cleaning	Cleaned and maintained without use of any factory and/or field-applied coatings
Shine	Higher shine may be achieved by buffing without any artificial topical applied coatings
Technical Support	Manufacturer shall be capable of providing field technical supervision, training and support

MAINTENANCE & CLEANING PROCEDURES

Always refer to manufacturer's recommendations specific to each product.

- Daily maintenance
 - Per manufacturer's recommendations.
 - Dust mop or vacuum the floor to remove dust and grit.
 - If required, remove any chewing gum with a gum removing spotter. If a solvent is used for gum removal, immediately rinse the floor with clean water.
 - Damp mop or auto-scrub the floor using pads approved by flooring manufacturer.
 - To increase shine, dry buff the floor using approved pad.
- Periodic maintenance
 - Per manufacturer's recommendations.
 - Dust mop or vacuum the floor to remove dust and grit.
 - If required, remove any chewing gum with a gum removing spotter. If a solvent is used for gum removal, immediately rinse the floor with clean water.
 - Wet mop the floor with a diluted periodic maintenance product and allow the solution a minimum dwell time of 10 minutes.
 - Scrub the floor thoroughly with a floor scrubber using a pad recommended by the manufacturer.

- Wet vacuum the soiled solution, rinse the floor with clean water and allow to dry.
- To increase shine, burnish the floor using a 3M #4100 white pad or pad approved by flooring manufacturer.

END OF LIFE RECLAMATION / DISPOSAL

- Product may be entirely reclaimable. Contact manufacturer.

OUTLINE SPECIFICATION

- Part 1 General
 - Extra Materials
 - Open cartons of rubber tile and/or partially used rolls of sheet rubber not installed shall be turned over to the Owner. Contractor shall not supply any additional attic stock unless directed otherwise by Owner.
- Part 2 Products
 - Reference Manufacturer:
 - Nora
 - Rubber Tile, nominal sizes 20" x 20", 24" x 24", or 40" x 40".
 - Rubber Sheet Flooring, standard roll size. Review locations with Owner. Tile is generally preferred over sheet flooring due to difficulty with installation and replacement. See Part 3 below.
 - 3 mm thickness minimum, as noted in Section 09 60 00.
 - Smooth or hammered texture only; no raised dot pattern.
 - No welded seams at non-wet areas. See Part 3 below.
 - Rubber Stair Tread (when used): one-piece nosing/tread/riser; hammered texture, square nosing.
 - Specialized products, such as Nora's nTx flooring or DryFix adhesive system, may be utilized based on results of RH testing of concrete slabs, in lieu of providing a moisture mitigation system, if such products meet RH tolerances. Confirm with Manufacturer, Owner and Architect.
 - **Colors:** Avoid light and dark flooring colors that will show scratches and scuff marks. Medium valued colors and flecked pattern types are encouraged. Review selections with Owner.
 - Other Acceptable Manufacturers, provided compliance with requirements:
 - Tarkett/Johnsonite
 - Mohawk
 - Mannington
 - Equivalent manufacturers **approved, in writing, in advance, by the Architect**, may be substituted in accordance with the provisions of the Contract.
- Part 3 Execution
 - Per Consultant, manufacturer specifications and/or ASTM F710 guidelines.
 - Perform bond tests prior to installation to ensure sufficient bond of the flooring.
 - Verify that the moisture and pH content of concrete slabs meet the requirements of the flooring and adhesive manufacturers and installers.
 - Moisture limits for Nora® wet adhesives and Nora® Dryfix are ≤ 85% RH when tested in accordance with ASTM F2170, *Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes*.
 - Test for slab moisture as soon as practical on new and existing floor slabs.
 - Perform water droplet tests in accordance with ASTM F3191.

- Options available for projects with high moisture: install Nora® nTx flooring (or approved substitute), or use a surface-applied Moisture Mitigation System.
- When rubber flooring is specified at food serving areas outside of kitchens, use sheet flooring only in lieu of rubber tile and provide welded seams and sanitary base or flash cove base when required by authorities having jurisdiction.
- Provide trained installers on site that within 36 months have been at least one of the following:
 - Approved by manufacturer for all requirements of the project.
 - INSTALL (International Standards & Training Alliance) certified for the requirements of the project.
- Provide installation manager to manage the project and installers, and ensure that all required procedures are followed as detailed in the manufacturer's installation guide.
- Surface Preparation:
 - Prepare substrates as recommended by flooring and adhesive manufacturers, including removal of curing compounds, sealers, adhesive residue, and other contaminants.
 - Fill minor low spots, cracks, joints, holes and other defects with sub-floor filler to achieve smooth, flat, hard surface.
 - Prohibit traffic until filler is fully cured. Verify curing requirements.
 - Perform bond tests per flooring manufacturer's recommendations to determine the compatibility of the flooring system to a variety of substrates and which may provide an indication of the presence of moisture.
 - Do not use moisture mitigation products that render the concrete slab non-porous.
 - Verify that adhesives specified are compatible with the rubber flooring product and meet the requirements of the flooring manufacturer.
- Post Installation
 - Follow manufacturer's instructions to remove any factory applied coatings, adhesive residue and construction debris.
 - Prevent all traffic for a minimum of 12 hours, and rolling loads for 72 hours, to allow the adhesive to cure. If required, after 12 hours, protect the flooring from damage during construction operations using Masonite, plywood, or similar product, ensuring first that the flooring is free of all debris. Lay panels so that the edges form a butt joint and tape the joints to prevent movement and debris entrapment underneath them. Inspect immediately before and after removal for final acceptance.
 - Dust mop or vacuum to remove all dirt and grit.
 - Remove any adhesive residue.
 - Wet mop using a diluted initial maintenance product (per manufacturer's product preference) and allow the solution to sit for a minimum of 10 minutes.
 - Scrub the floor thoroughly with a floor scrubber using a pad recommended by the manufacturer.
 - Wet vacuum the soiled solution, rinse the floor with clean water and allow to dry.
 - To increase shine, burnish the floor using a 3M #4100 white pad or pad approved by flooring manufacturer.

End of Section