

Description:

The purpose of this section is to highlight the current applicable UMD design standards for the design, selection and installation of interior floor surface materials.

Related Sections:

- 10 21 00 Restroom Requirements

Effective Date:

January 1, 2020

Applicable Standards:

- TCNA Tile Council of North America
- ANSI A137.1

General Requirements:

Durable as well as appropriate floor finishes throughout a building are a high priority for maintenance and safety reasons.

- **Concrete Floors**
 - Interior concrete floor areas, which are scheduled to receive paint, shall be painted and sealed with a non-slip epoxy finish.
 - Concrete floors shall be cleaned and etched prior to painting using muriatic acid as required by manufacturer's recommendations.
 - Precaution should be taken with any concrete floor areas designated to exposed to high public view and traffic should be highlighted (by documentation) as to an acceptable range (limit) of exposed aggregate allowable after grinding/polishing and prior to any final sealing process.
- **Resilient Tile Floors**
 - Resilient tile shall be acceptable for classrooms, offices, corridors, administrative areas, departmental/college areas, elevator cab interiors, fast food service areas, custodial storage rooms, and copy rooms for ease of maintenance.
 - Resilient tile floors shall be cleaned, sealed, and polished by the construction contractor in accordance with the manufacturers' specifications.
 - Vinyl composition tile shall be asbestos free.
 - For any installation involving removal or enclosure of existing VAT, refer to Section 01.81.16 - Environmental Health and Safety.
- **Entrance Area Flooring**
 - Tuff-Flex or equal, entrance and vestibule mats shall be installed in all public entrances.
- **Carpeted Flooring Material**
 - The use of carpet is strongly discouraged except for aisles of lecture halls and Dean's/Departmental Chairperson's offices/suites.
 - Provide molded nosing for steps and transition strips between carpet and adjacent material when carpet is specified.
 - The grade of carpet quality shall be determined by space needs. Specify carpet with the following characteristics, as a minimum and unless project requirements dictate otherwise.
 - A minimum face weight of 24 ounces per yard of commercial quality nylon, type 6.6, solution dyed, with soil resistance.
 - 100% synthetic backing with permanent moisture barrier to eliminate absorption (below grade installations).

- An electrostatic propensity of 1.5 KV or lower, anti-static.
 - Direct glue down installation using adhesive recommended by carpet manufacturer.
 - Where used, under pad to be either hair and jute or synthetic foam.
 - Fiber Colorfast.
 - 10 year warranty on wear and edge ravel (delamination) and color-fastness to light.
 - Conform to applicable code for flame/fuel/smoke rating requirements in accordance with latest ASTM requirement. Carpet shall meet ADA minimum coefficient of friction of .6 for accessible ramps.
 - Concrete shall be sealed prior to carpet installation.
 - Discontinued products or end-of-runs are unacceptable.
 - Extra materials (5% or 50 square yards maximum) are required for each type and color of carpet specified and shall be delivered to the Department of Operations and Maintenance.
 - Each type of carpet shall be from one dye lot only.
- **Vinyl or Rubber Rolled Flooring**
 - Acceptable for elevator cab interiors.
 - Preformed stair treads are preferred for stairs. A diamond pattern provides a more maintainable surface and is preferred.
- **Terrazzo Flooring**
 - Terrazzo is acceptable for vestibules/entrances/lobbies, corridors and food service areas.
 - Walk-off mats should be considered for entrance areas.
- **Quarry Tile Flooring**
 - Quarry tile with double abrasive grain, is acceptable for food preparation and storage areas, serving areas behind counters, laundries, and dishwashing areas.
 - Grout should be sealed. Each sealing application should be correctly matched for each areas and exposed condition.
- **Wood Flooring**
 - Acceptable only for use as dance floors, handball courts, basketball courts, racquetball courts, gymnasiums, and other sports activity areas and also where required for acoustical treatment.
- **Ceramic Tile**

Acceptable for use in typical restrooms or similar wet areas.

 - **Floor Tile:**
 - Designers are required to select and specify the surface friction criteria for all floor tile finishes according to the DCOF Acutest (or similar) testing method.
 - Any selected floor tile materials used in public areas must be certifiable according to ANSI A137.1 by each manufacturer.
 - **Wall Tile:**
 - Wall tile designated as interior wainscot should be installed at a minimum height of 4'-0" above finished floor.
- **Seamless Flooring and Coved Base**
 - Shall be acceptable for animal care facilities and "clean" rooms.
- **Coved Vinyl or Rubber Wall Base**
 - Acceptable with flooring of resilient tile and/or carpet.
 - Unless directed otherwise by UMD, vinyl material used as a wall base is not allowed.