

Description:

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

Related Sections:

- 03 20 00 Cat-in-Place Concrete
- 10 21 00 Restroom Requirements

Effective Date:

January 1, 2021

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.
 - Prior to painting and/or staining concrete floors shall be cleaned and etched using muriatic acid per manufacturer's recommendations.
- **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**
 - 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 areas, serving areas behind counters, laundries, and dishwashing areas.
 - Grout should be sealed.
- **Wood Flooring**
 - Acceptable for 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 identify and specify the surface friction criteria for any selected 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 any each manufacturer.
 - **Wall Tile:**
 - Wall tile designated at interior walls should install 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 material is not allowed.