Floor Finishes 09.60.00

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.
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- 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.