

SPECIFICATION NO. 4239

FOR

VINYL ASBESTOS TILE FLOORING

FOR

INCREASED BRANCHED POLYETHYLENE FACILITIES

AT

VICTORIA PLANT
VICTORIA, TEXAS

BY

E. I. DU PONT DE NEMOURS & CO., INC.
Wilmington, Delaware

PROJECT 3210

March 18, 1960

APPROVED BY:

George W. Blatcher
Design Division

3-21-60
Date

DUP 0838549

SPECIFICATIONS
FOR
VINYL ASBESTOS TILE FLOORING

1. GENERAL

1.1 Scope - this specification covers the materials and application procedures for vinyl asbestos tile floors and rubber base where called for on the drawings.

1.2 Intent - The intent of these specifications is to set forth the quality of materials of construction and workmanship required for the performance of the work involved.

1.3 Manufacturers' Products are named for the purpose of describing the material desired, and such naming shall not be construed as preventing the use of materials of equal kind, quality, and color, manufactured by others, unless such other materials are specifically denied acceptance herein. Samples of proposed alternate materials together with complete physical and chemical properties and data, as applicable, shall be submitted to the Design Division, Architectural and Civil Section, for approval before any such materials are shipped to the site, unless this requirement is waived for the material involved.

1.4 Definitions

1.4.1 Reference to "Du Pont" means any authorized representative of E. I. du Pont de Nemours & Co., Inc.

1.4.2 Reference to the "Design Division" means the Design Division of Du Pont.

1.4.3 Reference to "Federal Specification" shall mean the following authority:

Federal Specifications
General Services Administration
Superintendent of Documents
U.S. Government Printing Office
Washington 25, D.C.

1.4.4 Standard Engineering Specifications - SB-4-K, dated May, 1958, Sections 2 through 6 is herewith made a part of this specification, except as hereinafter specified.

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1. GENERAL

1.1 Standard Engineering Specifications SC1A and SC1.1A apply to and are a part of this Specification.

1.2 Vinyl-asbestos tile shall be defined as a semirigid material manufactured from vinyl resins filled with asbestos fibers.

1.3 Brands of tile shall be subject to du Pont approval. The nominal size of tile shall be 9 inches by 9 inches and thickness shall be $\frac{1}{8}$ inch. Color shall be as called for in project specifications or as selected by du Pont. Border, if required, shall be 6 inches to 9 inches wide and shall follow the line of all permanent walls and partitions, columns, pilasters and permanent fixtures or equipment presenting an enclosed vertical surface in the floor line. Adhesives shall be as approved by the manufacturer of the proposed tile. All tile shall be furnished from the same batch of raw material to assure uniformity of color.

2. MATERIALS

2.1 Tile shall conform to the requirements for Type I, Federal Specification L-T-751.

2.2 Primer shall be a thin liquid cutback asphalt primer.

2.3 Adhesive for tile shall be either emulsified or cutback asphalt cement for on-grade or above-grade application. Only cutback cement shall be used for installations on slabs below grade.

2.4 Adhesive for rubber base shall be manufactured specifically for use in application of rubber base and be as recommended by the manufacturer of the base.

2.5 Leveling compound and crack filler shall be a mixture of rubber or neoprene latex and "Lumnite" cement mixed and applied in accordance with manufacturer's directions.

2.6 Accessories. Protective edgings shall be extruded brass or aluminum unless otherwise indicated or specified.

2.7 Rubber base shall be $\frac{1}{8}$ -inch thick, 4 inches high, and shaped so as to set on top of the tile floor. Corners shall be performed at the factory. Base other than rubber base is not included in this Specification.

3. INSTALLATION

3.1 The concrete subfloor shall be smooth, without protrusions or depressions, and free of scale, dirt, grease, oil, and other foreign deposits. All holes, joints, and cracks shall be filled with crack filler and trowelled smooth. Irregularities shall be corrected with the leveling compound. The subfloor must be thoroughly dry before the start of tile laying begins.

3.2 Before starting installation, the room involved must be heated for at least 24 hours to a minimum temperature of 70 degrees F. and be maintained at this temperature during the period of installation. Provide adequate ventilation during the progress of the work and throughout the drying period.

3.3 Tile work must not be started until the work of all other trades, in the areas involved, is entirely completed, except for movable partitions and equipment which are required to set on top of the tile.

3.3.1 Priming the subfloor is necessary only where cutback adhesive is to be used. Primer shall be applied in as thin a coat as is compatible with complete coverage, using approximately one gallon per 300 square feet. Primer must be thoroughly dry before adhesive is applied.

3.3.2 Adhesive shall be applied with a serrated trowel and in an even and uniform layer. Application rate of emulsified bituminous cement shall be approximately 125 square feet per gallon. It shall be allowed to set until the color is jet black and until no bitumen adheres to the thumb when pressed into the asphalt, before tile laying begins. Cutback bituminous cement shall be applied at the rate of approximately 200 square feet per gallon and be allowed to dry for a minimum period of 30 minutes so that the adhesive becomes dry to touch.

3.3.3 When the adhesive is sufficiently dry, the tile shall be laid in accordance with the layout

Vendors and merchandise designations are given to describe materials and may not include all acceptable products. Substitutions are to be made only on approval of the authority initiating the use of this Specification.



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and pattern selected by du Pont. The field shall be applied first, starting at the center of the area and working toward the edges. The tiles shall be square with the room axis and be laid in full contact with the subfloor surface. The tile shall be scribed to the wall or other vertical surfaces, fitting neatly into breaks or recesses, against or under base trim, and around pipes. Tile shall be punched out where the legs of radiators or other fixed weighty objects are positioned and specially made aluminum disks of the same thickness as the tile shall be inserted into the holes.

3.3.4 Rubber base shall be installed where indicated on the drawings, strictly in accordance with the manufacturer's directions, using the cement intended for this purpose. Base shall be accurately scribed to trim and plinths, and built-in fixtures.

4. SURFACE TREATMENT

4.1 After completion of installation, the tile surfaces shall be cleaned of adhesive, dirt, and other foreign substances. Use of solvents, other than those recommended by the tile manufacturer, is not permitted.

4.2 A minimum time lapse of 7 days shall be allowed when weather and room conditions are dry and 10 days when humidity and dampness are excessive before washing and waxing. In washing, only cleaners approved by the tile manufacturer shall be used. The surface shall be thoroughly washed and then rinse-mopped using clean water, removing all traces of cleaner. When the floor is dry, a coat of water-emulsion nonskid self-polishing wax shall be applied in accordance with manufacturer's directions. Wax shall be devoid of free oils and fats and be approved by the tile manufacturer.

4.3 In lieu of the above method, one coat of water-emulsion wax may be applied as soon as practicable after completion of tile laying in a particular area. The quantity of wax applied shall be such that none will leak into joints and re-emulsify the cement and soil the edges of the tile. The final coat of wax shall then be applied immediately before du Pont acceptance of the building and after a thorough washing and cleaning. The floor shall be covered or protected as necessary to prevent damage to the surface until occupancy by du Pont.

4.4 Until final acceptance by du Pont, the floor shall be covered or protected as necessary to prevent damage to the surface.

5. FINAL INSPECTION AND ADJUSTMENTS

5.1 After completion, and prior to final acceptance by du Pont, the temperature of the rooms floored with vinyl-asbestos tile shall be continuously maintained at a minimum of 70 degrees F for a period of approximately 30 days. The work shall then be inspected and necessary repairs and adjustments be made. Loose or projecting tiles shall be reseated. Tiles with fractures or broken corners shall be replaced and waxed.

6. METHOD OF MEASUREMENT

6.1 Pay quantities under unit prices shall be on a square-foot basis for tile in place and per lineal foot for cove base in place. The square feet of area to be paid for shall be determined by actual measurements of finished floor space covered. No additional allowance will be made for scrap or section of tile not laid.

