

PRODUCT INFORMATION

CE-237 10/18 Supersedes 11/13

TUFCHEM[™] TILING SYSTEMS

DESCRIPTION

TUFCHEM Tiling Systems (TTS) are direct-bonded chemical-resistant vitrified tile flooring systems designed for superior performance, outstanding aesthetics and maximum installation speed. The systems consist of: dense, fully-vitrified (porcelain quality) *tiles* of nominal 3/4" (18-19 mm) thickness with integrally molded side joint spacers, available in a variety of slip-resistant surface textures, colors, and shapes; time-tested high bond strength THINSET Adhesive epoxy *setting bed* (refer to product data sheet CE-158); and chemical-resistant *tile grout*, selected from Corrosion Engineering's broad product line to meet each application's specific chemical and thermal service requirements. Corrosion Engineering supplies a complete range of companion products including *expansion joint sealant*, chemical-resistant *membranes*, high-performance *underlayments*, and castable *polymer grouts* for equipment supports. Consult your local Corrosion Engineering Representative for the full range of architectural choices and complete specification details.

AREAS OF USE

Applications include floor and curb areas that require sanitary and hygienic floors resistant to acids, alkalis, or solvents such as food processing plants, dairies, bakeries, bottling plants, distilleries, pharmaceutical manufacturing facilities, and chemical process plants. Other commercial applications include cafeterias and institutional kitchens, where chemically resistant flooring systems are required.

TUFCHEM Tiling Systems can be designed for applications requiring electrically conductive flooring systems such as electronics processing, solvent processing and storage, and munitions and explosives manufacturing. Consult you Corrosion Engineering representative for details.

OUTSTANDING FEATURES

- Self-spacing tiles enable high installation productivity, often resulting in lower installed cost than conventional paver systems.
- The use of vibration setting techniques minimizes tile lippage. Hexagonal field tiling conforms tightly to changing slopes on floors with central drains.
- Numerous solid and mingled color options create a uniquely attractive floor.
- A choice of abrasion-resistant integrally molded surface textures provide wellbalanced slip resistance and ease of cleaning for different processing environments.
- TUFCHEM Tiling Systems are antimicrobial by design. Consult Corrosion Engineering for details.

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TYPICAL PHYSICAL PROPERTIES

PROPERTY	TUFCHEM Tiles		
Colors	Numerous solid and mingled colors		
Shape Availability	Rectangular or hexagonal		
Slip Resistance	Integrally molded profiles from flat to heavily textured		
Dimension Tolerance (L, W)	< +-0.5% (DIN 18-158)		
Thickness	3/4" (18-19 mm)		
Flexural Strength	4,400 – 9,065 psi		
Water Absorption	<0.5% (ANSI 137.1 Table 10) <0.25% typical		
Acid Resistance	No trace of deterioration (DIN EN99)		
Coefficient of Thermal Expansion	4-5 x 10 ⁻⁶ /cm/cm/°C @ 100°C (EN176 maximum allowable value: 9 x 10 ⁻⁶ /cm/cm/°C @ 100 °C)		
Hardness (Moh scale)	>7		
Nominal Joint Width	5/64" (3 mm) (integrally molded)		
Production Method	Dry pressed		

ESTIMATING/PACKAGING THEORETICAL QUANTITIES - NO OVERAGE ALLOWANCE

PRODUCT	CODE	PACKAGING	COVERAGE	
4" x 8" x 3/4" (100 x 200 x 18 mm)	Varies with color and surface	with color and surface texture texture itexture	Allow 4.6 of the 4" x 8" pieces per SF	
4-1/4" hexagonal x 3/4" (108 x 18 mm)			Allow 9.2 pieces of the 4-1/4" hexagon tile per SF	
4" hexagonal x 3/4" (100 x 18 mm)			Allow 10.7 pieces of the 4" hexagon tile per SF	
Consult Corrosion Engineering for detailed information about available tile colors, textures, and shapes				

SAFETY PRECAUTIONS / DISCLAIMER

Mixes and applications of this product present a number of hazards. Read and follow the hazard information, precautions and first aid directions on the individual product labels and material safety data sheets before using. While all statements, technical information, and recommendations contained herein are based on information our company believes to be reliable, nothing contained herein shall constitute any warranty, express or implied, with respect to the products and/or services described herein and any such warranties are expressly disclaimed. We recommend that the prospective purchaser or user independently determine the suitability of our product(s) for their intended use. No statement, information or recommendation with respect to our products, whether contained herein or otherwise communicated, shall be legally binding upon us unless expressly set forth in a written agreement between us and the purchaser/user.

