

CE-271 Page 1 of 2 Pennchem[™] Tile Grout

SELECTION & SPECIFICATION DATA

Туре	Vinyl ester tile grout			
Description	Pennchem Tile Grout is a 2-component vinyl ester tile and paver floor grout.			
Uses	 Brick and tile flooring in: CIP areas in food processing facilities Breweries and distilleries Bottling plants Meat and poultry processing plants Pharmaceutical plants Chemical process facilities 			
Features	 Resists oxidizing chemicals, mineral and organic acids, some organic solvents 2 component – resin and reactive powder Easy to mix and apply Rapid strength development Cure accelerator available for low temperature installation conditions 			
Limitations	 Not suitable for vertical wall tile applications. Not water washable. Use care in operating food plants to protect product from grout odor until it has fully cured. Not for use beyond its chemical resistance or thermal capabilities. Consult ErgonArmor with specific questions. 			

INSTALLATION GUIDANCE

Reference Specifications	CES-309 Installation of direct bond tile floors				
Installation Conditions	Pennchem Tile Grout is formulated for ideal handling at 70°F (21°C). Materials and substrate should be acclimated to the air temperature prior to installation, and the air temperature should be between 50°F (10°C) and 90°F (32°C) during installation and cure. Add Pennchem Initiator for temperatures between 35°F (2°C) and 50°F (10°C). Bricks or tiles must be clean, dry and neutral pH.				
Ratio	1.0 resin: 2.4 powder by weight. Mix ratio may be varied slightly by adjusting filler loading to suit individual tile setter preferences.				
Mixing	Pour measured quantity of resin into clean, dry mixing vessel. Add Pennchem Initiator to resin if using. Slowly add measured quantity of powder to resin and mix thoroughly. Mix until powder is thoroughly wetted and grout is creamy, free of lumps and trowelable.				
Work Life	55 minutes at 70°F (21°C)				
	Work life is shorter at higher temperatures. A larger volume of mixed material will have a shorter work life than a smaller volume.				
Cleanup	Methyl Ethyl Ketone (MEK)				
<u>CURE TIME</u>					
<u>CURE TIME</u> Brick or Tile Temperature	Initial Set	Remove Grout Residue	Full Cure		
Brick or Tile			Full Cure		
Brick or Tile Temperature	Set	Residue			
Brick or Tile Temperature 70°F (21°C)	Set 1 hour Mixes and ap number of h information,	Residue 8 hours polications of this product azards. Read and follow to precautions and first aid al product labels and safe	36 hours t present a he hazard directions on		
Brick or Tile Temperature 70°F (21°C) <u>SAFETY</u>	Set 1 hour Mixes and ap number of h information, the individua before using Provide thor	Residue 8 hours pplications of this product azards. Read and follow t precautions and first aid al product labels and safe ough air circulation durin intil the material has cure	36 hours t present a he hazard directions on ty data sheets og and after		



Code

26824

19685

19524

pail of resin and 2 x 50 lb (22.7 kg) bags of powder.

A 140 lb (1.35 ft³) unit of Pennchem Tile Grout consists of 1 x 40 lb (18.1 kg)

For low temperature use or faster work life and set time, add 2.0 to 3.0 fl oz

of Pennchem Initiator to a pail of Pennchem Resin before adding powder.

conditions.

ErgonArmor.

or ErgonArmor for assistance.

Packaging

32 oz bottle

Consumption will vary based on tile size and

joint width. Consult estimating guide CES-145

Maintain products in original packaging and

If there is any question with respect to the quality of the components, check reactivity prior to use. For assistance consult with

sealed until ready for use. Estimated shelf life of

resin is 4-6 months when stored in a dry area at 70°F (21°C). Estimated shelf life of powder is 12 months. Actual shelf life may vary with storage

40 lb (18.1 kg) pail

50 lb (22.7 kg) bag

PACKAGING & ESTIMATING

Product

Pennchem Resin

Pennchem Powder

Pennchem Initiator

Theoretical

Coverage

Storage &

Shelf Life

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TYPICAL PHYSICAL PROPERTIES

Property

Color		

Density, ASTM C138

Compressive strength, ASTM C579

Modulus of elasticity, ASTM C580

Linear shrinkage, ASTM C531

Bond strength, ASTM C321

Tensile strength, ASTM C307

Flexural strength, ASTM C453

Maximum service temperature

 Typical Value

 White

 104 lb/ft³ (1,666 kg/m³)

 >10,000 psi (69 MPa)

 0.96 x 10⁶ psi (6,620 MPa)

 0.2%

 Exceeds strength of concrete

 Exceeds strength of brick

 >1,500 psi (10.3 MPa)

 >3,000 psi (20.7 MPa)

 225°F (107°C)

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