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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 plants to protect its and the second secon

 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>				
Brick or Tile Temperature	Initial Set	Remove Grout Residue	Full Cure	
70°F (21°C)	1 hour	8 hours	36 hours	
<u>SAFETY</u>				
Safety	Mixes and applications of this product present a number of hazards. Read and follow the hazard information, precautions and first aid directions on			

 Ventilation
 Provide thorough air circulation during and after application until the material has cured when used in enclosed areas.

the individual product labels and safety data sheets



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PACKAGING & ESTIMATING

Product	Code	Packaging
Pennchem Resin	19686	40 lb (18.1 kg) pail
Pennchem Powder	19685	50 lb (22.7 kg) bag
Pennchem Initiator	19524	32 oz bottle

A 140 lb (1.35 ft³) unit of Pennchem Tile Grout consists of 1 x 40 lb (18.1 kg) pail of resin and 2 x 50 lb (22.7 kg) bags of powder.

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.

Consumption will vary based on tile size and Theoretical joint width. Consult estimating guide CES-145 Coverage or ErgonArmor for assistance. Maintain products in original packaging and Storage & sealed until ready for use. Estimated shelf life of Shelf Life 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 conditions.

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

TYPICAL PHYSICAL PROPERTIES

Property **Typical Value** White Color Density, ASTM C138 104 lb/ft3 (1,666 kg/m3) Compressive strength, ASTM C579 >10,000 psi (69 MPa) 0.96 x 10⁶ psi (6,620 MPa) Modulus of elasticity, ASTM C580 Linear shrinkage, ASTM C531 0.2% Bond strength, ASTM C321 Exceeds strength of concrete Exceeds strength of brick Tensile strength, ASTM C307 Flexural strength, ASTM C453

Maximum service temperature

>1,500 psi (10.3 MPa) >3,000 psi (20.7 MPa)

225°F (107°C)

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