

# Penntrowel™ EZ Grout 200 Special

## SELECTION & SPECIFICATION DATA

<b>Type</b>	Novolac epoxy tile grout
<b>Description</b>	Penntrowel EZ Grout 200 Special is a 3-component high performance tile and paver floor grout.
<b>Uses</b>	<ul style="list-style-type: none"> <li>• Dairies, HTST areas</li> <li>• Bakeries</li> <li>• Breweries and distilleries</li> <li>• Bottling plants</li> <li>• Meat and poultry processing plants</li> <li>• Pharmaceutical plants</li> <li>• Chemical process facilities</li> </ul>
<b>Features</b>	<ul style="list-style-type: none"> <li>• Exceeds ANSI A118 requirements</li> <li>• Superior water-cleanability during installation</li> <li>• Low viscosity - can penetrate narrow joints typical of 2-3 mm pre-spaced fully vitrified tiling systems</li> <li>• Ideal for hygienic process floors where control of antimicrobial growth is critical</li> <li>• Resists steam cleaning cycles</li> <li>• Broad resistance to most acid and alkali sanitizers</li> </ul>
<b>Limitations</b>	<ul style="list-style-type: none"> <li>• Not suitable for vertical wall tile use.</li> <li>• Not for use beyond its chemical resistance or thermal capabilities. Consult ErgonArmor with specific questions.</li> </ul>

## INSTALLATION GUIDANCE

<b>Reference Specifications</b>	CES-309 Installation of direct bond tile floors CES-311 Installation of Tufchem™ Tiling Systems
<b>Installation Conditions</b>	Penntrowel EZ Grout 200 Special 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. Bricks or tiles must be clean, dry and neutral pH.
<b>Ratio</b>	1.0 resin: 0.33 hardener: 3.5 filler by weight 1.0 resin: 0.33 hardener by weight, liquids only 2.5 resin: 1 hardener by volume, liquids only
<b>Mixing</b>	Pour resin into clean, dry mixing vessel. Slowly add hardener to resin and mix thoroughly. For Tufchem Tiling System, spread catalyzed resin across tile joints in accordance with installation methods outlined in specification CES-311. For conventional grouting, add filler and mix until filler is thoroughly wetted and grout is creamy, free of lumps and trowelable.
<b>Work Life</b>	95 minutes spread time at 70°F (21°C) per ANSI A118.3, test 5.1.  Work life is shorter at higher temperatures. A larger volume of mixed material will have a shorter work life than a smaller volume.
<b>Cleanup</b>	For wet grout, use water and "Dawn" dish soap or a citrus based cleaner. For gelled grout, use xylene or MEK.

## CURE TIME

<b>Brick or Tile Temperature</b>	<b>Initial Set</b>	<b>Full cure</b>
70°F (21°C)	5-6 hours	5 days

## SAFETY

<b>Safety</b>	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 safety data sheets before using.
<b>Ventilation</b>	Provide thorough air circulation during and after application until the material has cured when used in enclosed areas.

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## PACKAGING, ESTIMATING & HANDLING

Product	Code	Packaging
TTS Novolac Resin Clear	29481 29474	4 x 7.1 lb (0.75 gal) can case 43 lb (4.5 gal) pail
EZG Hardener	29685 29684	4 x 2.34 lb (0.30 gal) can case 14 lb (1.8 gal) pail
TTS Grout Fillers		
Medium Black	29468	50 lb bag
Fine Black	29469	50 lb bag
Medium Red	29468-R	50 lb bag
Fine Red	29469-R	50 lb bag
Medium Gray	28193	50 lb bag
Fine Gray	28192	50 lb bag

When used unfilled with power grouting equipment (Tufchem™ Tiling System), a 57 lb (6.3 gallon) unit of Penntrowel™ EZ Grout 200 Special consists of 1 x 43 lb (4.5 gal) pail of resin and 1 x 14 lb (1.8 gal) can of hardener, and a 38 lb (4.2 gal) unit consists of 1 x 28 lb case of resin and 1 x 9.4 lb case of hardener.

A 209 lb (1.94 ft<sup>3</sup>) unit consists of 1 x 43 lb pail of resin, 1 x 14 lb can of hardener and 150 lb of fine filler. A 138 lb (1.21 ft<sup>3</sup>) unit consists of 1 x 28 lb case of resin, 1 x 9.4 lb case of hardener, and 100 lb of fine filler.

**Theoretical Coverage** Consumption will vary based on tile size and joint width. Consult estimating guide CES-145 for assistance or consult with ErgonArmor.

**Storage & Shelf Life** Maintain products in original packaging and sealed until ready for use. Estimated shelf life is 12 months when stored in a dry area at 70°F (21°C). 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
Color	Mixed liquids: amber clear Filled: varies with filler color – black, red, gray.
Density, ASTM C138	114 lb/ft <sup>3</sup> (1,826 kg/m <sup>3</sup> )
Compressive strength, ANSI A118.3 test 5.6, 7-day	>6,000 psi (41 MPa)
Bond to Tile, ANSI A118.3 test 5.5	>1,000 psi (6.9 MPa)
Adhesion to concrete, ASTM C321	Exceeds strength of concrete
Tensile strength, ANSI A118.3 test 5.7	>1,500 psi (10.3 MPa)
Service temperature	185°F (85°C) continuous 212°F (100°C) intermittent

**New 11/2021**

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