

Penntrowel™ EZ Grout 200

SELECTION & SPECIFICATION DATA

Type	Novolac epoxy tile grout
Description	Penntrowel EZ Grout 200 is a 3-component high-performance tile and paver floor grout.
Uses	- Dairies, HTST areas - Bakeries - Breweries and distilleries - Bottling plants - Meat and poultry processing plants - Pharmaceutical plants - Chemical process facilities
Features	- Exceeds ANSI A118 requirements - Superior water-cleanability during installation - Low viscosity - can penetrate narrow joints typical of 2-3 mm pre-spaced fully vitrified tiling systems - Ideal for hygienic process floors where control of antimicrobial growth is critical - Resists steam cleaning cycles - Broad resistance to most acid and alkali sanitizers
Limitations	- Not suitable for vertical wall tile use. - Not for use beyond its chemical resistance or thermal capabilities. Consult Armor with specific questions.

INSTALLATION GUIDANCE

Reference Specifications	CES-309 Installation of direct bond tile floors CES-311 Installation of Tufchem™ Tiling Systems
Installation Conditions	Penntrowel EZ Grout 200 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.
Ratio	1.0 resin: 0.36 hardener: 3.5 filler by weight 1.0 resin: 0.36 hardener by weight, liquids only 2.5 resin: 1.0 hardener by volume, liquids only
Mixing	Pour measured quantity of resin into clean, dry mixing vessel. Slowly add measured quantity of 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.
Work Life	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.
Cleanup	For wet grout, use water and "Dawn" dish soap or a citrus based cleaner. For gelled grout, use xylene or MEK.

CURE TIME

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

SAFETY

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

**Penntrowel™ EZ Grout 200****PACKAGING & ESTIMATING**

Product	Code	Packaging
TTS Novolac Resin Clear	29474 29481 24348	43 lb (4.5 gal) pail 4 x 7.1 lb (0.75 gal) can case 380 lb (41 gal) drum
EZ Grout Hardener	29653 29654 29655	15.5 lb (1.9 gal) can 4 x 2.6 lb (0.31 gal) can case 410 lb (50 gal) drum
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
Penntrowel EZ Grout 200 Kit, Black	29531	27.6 lb (2.5 gal/0.24 cu. ft.) 3-component kit, packed inside a 5-gal pail

When used unfilled with power grouting equipment (Tufchem™ Tiling System), a 58.5 lb (6.4 gallon) unit of EZ Grout 200 consists of 1 x 43 lb (4.5 gal) pail of resin and 1 x 15.5 lb (1.9 gal) can of hardener.

A bulk 1550 lb (173 gal) unit consists of 3 x 380 lb drums of resin and 1 x 410 lb drum of hardener.

For hand grouting a 139 lb (1.29 cu. ft.) unit of EZ Grout 200 consists of 1 case of 4 x 7.1 lb (0.75 gal) cans of resin, 1 case of 4 x 2.6 lb (0.31 gal) cans of hardener and 2 x 50 lb bags of fine filler.

A 209 lb (1.94 cu. ft.) unit consists of 1 x 43 lb pail of resin, 1 x 15.5 lb can of hardener and 3 x 50 lb bags 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 Armor.

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 Armor.

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 ³ (1826 kg/m ³)
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

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