



Penntrowel™ EZ Grout 200

SELECTION & SPECIFICATION DATA

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| Type | Novolac epoxy tile grout |
| Description | Penntrowel EZ Grout 200 is a 3-component high performance tile and paver floor grout. |
| Uses | <ul style="list-style-type: none">• Dairies, HTST areas• Bakeries• Breweries and distilleries• Bottling plants• Meat and poultry processing plants• Pharmaceutical plants• Chemical process facilities |
| Features | <ul style="list-style-type: none">• 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 | <ul style="list-style-type: none">• Not suitable for vertical wall tile use.• Not for use beyond its chemical resistance or thermal capabilities. Consult Armor with specific questions. |

INSTALLATION GUIDANCE

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| 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

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| 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. |



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PACKAGING & ESTIMATING

| Product | Code | Packaging |
|------------------------------------|-------------------------|---|
| TTS Novolac Resin Clear | 29474 29481 29584 | 43 lb (4.5 gal) pail 4 x 7.1 lb (0.75 gal) can case 509 lb (55 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, and a 1,937 lb (215 gal) unit consists of 3 x 509 lb drums of resin and 1 x 410 lb drum of hardener.

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, and 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 |
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| 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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