

CE-234b
11/13 Supersedes 01/05

PENNTROWEL[®] NOVOLAC WATER CLEANABLE EPOXY GROUT - CARBON GRADE

DESCRIPTION

PENNTROWEL Novolac Water Cleanable Epoxy Grout-Carbon Grade is a chemically resistant epoxy novolac based floor grout designed as a tile and paver grout where superior chemical resistance is required, including fluoride resistance. PENNTROWEL Novolac Water Cleanable Grout-Carbon Grade is conductive due to the use of special carbon fillers. It is ideal for both new construction and quick maintenance/repair projects. PENNTROWEL Novolac Water Cleanable Epoxy Grout-Carbon Grade meets or exceeds ANSI Specification A 118.3 for Chemical Resistant Water Cleanable Tile Setting and Grout Epoxy. It also meets ASTM C-658 Specification for Chemical Resistant Resinous Epoxy Grouts. **Consult Corrosion Engineering specification [CES-309](#) for complete installation details.**

PENNTROWEL Novolac Water Cleanable Epoxy Grout-Carbon Grade is authorized for use in federally inspected dairy, meat, juice and other food processing facilities.

AREAS OF USE

Applications include floor and curb areas that require strong acid, alkali and solvent resistant joints such as: dairies, bakeries, bottling plants, distilleries, pharmaceutical, and other food processing plants. Also, many commercial applications such as cafeterias and institutional kitchens which require chemically resistant tile grouts. Due to its conductive properties, it can be used in areas where flammable solvents are used.

OUTSTANDING FEATURES

- Cleans easily with water during installation - if properly applied, it will not stain or smear faces of brick or tile, and pavers. No waxing of the tile face is required for clean-up.
- Ideal for re-grouting - 3 components allow for an adjustable mix for easy flow.
- Easy to use - flows well, good pot life, sets quickly.
- Resists steam cleaning and intermittent temperatures up to 250°F (121°C).
- Excellent physical properties - forms strong adhesive bond that is extremely tough.
- Broad resistance to many strong acids, alkalis, solvents, cleaning agents, oils, fats and grease. Carbon filler resists fluorides and is conductive.

TYPICAL PHYSICAL PROPERTIES

PROPERTY	PENNTROWEL Novolac Water Cleanable Epoxy Grout Carbon
Wet Mortar Density	93 lbs./cu. ft. (1490 kg/m ³)
Compressive Strength (ASTM C-579)	15,000 psi (103 MPa), 28 days @ 70 °F (21°C)
Tensile Strength (ASTM C-307)	2,200 psi (15.1 MPa)
Flexural Strength (ASTM C-580)	4,000 psi (27.5 MPa)
Water Absorption (ASTM C-413)	0.23%
Shrinkage (ASTM C-351)	0.1% max.
Coefficient of Expansion (ASTM C-531)	2.4 x 10 ⁻⁵ in/in/°F (4.3 x 10 ⁻⁵ cm/cm/°C)
Adhesion to Concrete (ASTM C-321)	Greater than strength of concrete
Shear Bond Strength (ANSI 118.3)	1,390 psi 7 days (9.6 MPa)
Cleanability Time (ANSI 118.3)	95 minutes

ESTIMATING/PACKAGING THEORETICAL QUANTITIES – NO OVERAGE ALLOWANCE

PRODUCT	CODE	PACKAGING	COVERAGE
TTS Novolac Grout Resin - Clear	29481	4 x 0.75 gal (7.1 lb) cans/case	A 108 lb (1.16 cu ft) unit consists of 1 case Resin, 1 case Hardener, and 2 bags Filler. Square footage coverage per mixed unit will vary with tile size and joint depth. Consult estimating guide CE-145 for specific details.
PT Water Cleanable Grout Hardener	29429	4 x 0.25 gal (2.0 lb) cans/case	
PT L/F Filler - Carbon Grade	29446	36 lb bag	

Setting Bed Coverage: PENNTROWEL Novolac Water Cleanable Grout may also be used as a setting bed by doubling the amount of the filler component in the mix. A unit (180 lb) unit when used as a setting bed consists of 1 case resin, 1 case hardener and 4 x 72 lb bags filler. As a setting bed, a 180 lb unit covers theoretically 180 sq. ft. @ 1/8".

SAFETY PRECAUTIONS / DISCLAIMER

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 [material safety data sheets](#) before using. While all statements, technical information, and recommendations contained herein are based on information our company believes to be reliable, nothing contained herein shall constitute any warranty, express or implied, with respect to the products and/or services described herein and any such warranties are expressly disclaimed. We recommend that the prospective purchaser or user independently determine the suitability of our product(s) for their intended use. No statement, information or recommendation with respect to our products, whether contained herein or otherwise communicated, shall be legally binding upon us unless expressly set forth in a written agreement between us and the purchaser/user.



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