



PRODUCT INFORMATION

CE-278
04/20 Supersedes 10/18

PENNCHEM™ NOVOLAC GROUT

DESCRIPTION

PENNCHEM Novolac Grout is a flowable three component premium novolac epoxy grouting compound. It is designed for grouting machinery bases and base plates where it is vital to retain exact alignment, or where vibration or shock could cause equipment to break loose from weaker grouts. It is ideal for applications which require a low shrinkage, high strength grout that is also chemically resistant. For complete installation instructions, consult ErgonArmor installation specification CES-360.

AREAS OF USE

PENNCHEM Novolac Grout can be used in base plate grouting of many types of reciprocating heavy equipment or where heavy loads, high impact and vibrations are factors. These include:

- Anchor bolts
- Ball mills
- Mixers
- Diesel engines
- Generators
- Roller mills
- Cooling towers
- Conveyors
- Milling machines
- Packaging machines
- Steam engines
- Building columns
- Fans
- Leveling blocks
- Paper mill machines
- Tanks
- Car shakers
- Centrifuges
- Forging machines
- Stamping machines
- Filters
- Precipitators
- Compressors
- Presses
- Pumps
- Chemical towers
- Generators

OUTSTANDING FEATURES

- 100% reactive, contains no VOCs
- Good vibration resistance
- High impact strength
- Excellent physical strength
- Fast set
- Good bond to concrete and metal surfaces

TYPICAL PHYSICAL PROPERTIES

PROPERTY	PENNCHEM Novolac Grout
Color	Concrete gray
Working life	45 - 60 minutes at 70°F
Density (ASTM C138)	133 lb/ft ³ (2.1 kg/L)
Compressive strength, 28-day (ASTM C579)	>12,500 psi (86.2 MPa)
Tensile strength, 7-day (ASTM C307)	>1,500 psi (10.3 MPa)
Absorption, 48-hr Immersion (ASTM C413)	0.05 %
Linear shrinkage (ASTM C531)	0.04 %
Coefficient of thermal expansion, 75°F-210°F (ASTM C531)	2.11 x 10 ⁻⁵ /°F
Modulus of elasticity, 28-day (ASTM C580)	1.75 x 10 ⁶
Bond strength to concrete	Stronger than concrete
Impact strength	Stronger than concrete
Mix ratio by weight resin: hardener: filler	1.0: 0.5: 12.0
Remove shims	24 hours at 70°F
Place heavy reciprocating equipment into service	48 hours at 70°F

ESTIMATING/PACKAGING THEORETICAL QUANTITIES – NO OVERAGE ALLOWANCE

PRODUCT	CODE	PACKAGING	YIELD*
6710 Resin 6711 Hardener TUFCEM™ Grout Filler	19592 19595 21931	40 lb (4 gal) pail 21 lb (2.5 gal) can 60 lb bag	A 541 lb unit (4.07 cu ft) of flowable grout consists of 1 x 40 lb resin, 1 x 21 lb hardener, and 8 x 60 lb bags of filler. Flow with the above mix will vary with temperature and clearance. Use of vibration during placement will aid in placement. Reduce filler loading by one bag for a more fluid mix.

*Yield is a theoretical calculation and does not allow for surface irregularity, pail loss and normal overage allowances.

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 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. For all Terms and Conditions of Sale see ergonarmor.com.

