

CE-278
11/13 Supersedes 10/00

PENNCHEM[®] NOVOLAC GROUT

DESCRIPTION

PENNCHEM Novolac Grout is a flowable three component 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 Corrosion Engineering installation specification [CES-360](#).**

AREAS OF USE

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

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

OUTSTANDING FEATURES

- Excellent resistance to a wide variety of chemicals including 93-98% sulfuric acid, concentrated hydrochloric and nitric acid to 20%.
- Good vibration resistance.
- Low exotherm, pour as deep as 12" (30cm) in a single pour without overheating.
- High impact strength.
- Excellent physical strength.
- Fast set.
- Good bond to concrete and metal surfaces.

TYPICAL PHYSICAL PROPERTIES

PROPERTY	PENNCHEM Novolac Grout
Color	concrete grey
Working life	45 - 60 minutes @ 70°F
Density (ASTM C-138)	133 lb/ft ³
Compressive strength (ASTM C-579) (28 Days)	>14,500 psi (100 MPa)
Tensile strength (ASTM C-307) (7 Days)	>2,250 psi (15.5 MPa)
Absorption, (ASTM C-413) (48 Hour Immersion)	0.05 %
Linear shrinkage (ASTM C-531)	0.04 %
Coefficient of thermal expansion (75°F-210°F) (ASTM C-531)	2.11 x 10 ⁻⁵ in/in/°F
Modulus of elasticity, psi. (ASTM C-580) (28 Days)	1.75 x 10 ⁶
Bond strength to concrete	Stronger than concrete
Impact strength	Stronger than concrete
Mix ratio (by wt.) - Resin: Hardener: Filler	1.0: 0.51: 12.0
Remove shims	30 hours @ 70°F
Place heavy reciprocating equipment into service (hours)	60 hours @ 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

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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