



PRODUCT INFORMATION

CE-276
05/20 Supersedes 05/19

PENNCHEM™ NOVOLAC BRICK MORTAR

DESCRIPTION

PENNCHEM Novolac Brick Mortar is a high functional novolac epoxy resin based thermosetting brick mortar designed to bond and set chemical resistant masonry and tile linings. It exhibits excellent bond strength, broad chemical resistance, and reliable curing and handling characteristics. Consult ErgonArmor specification CES-358 for complete installation details.

AREAS OF USE

- Brick flooring and process trenches
- Bonding dense masonry units such as granite and high alumina shapes
- Process vessel linings
- High impact and abrasion areas
- Use for directly bonding brick or tile to the substrate

OUTSTANDING FEATURES

- Creamy buttering consistency suitable for chemical resistant masonry construction
- Resistant to a wide range of aggressive acids, alkalis and solvents
- Excellent wetting properties provide high bond strength to brick and tile
- Low shrinkage
- Stable in storage up to one year when stored in a cool dry location
- Components are pre-proportioned for easy mixing

TYPICAL PHYSICAL PROPERTIES

PROPERTY	PENNCHEM Novolac Brick Mortar
Color	Gray
Density, ASTM C138	114 lb/ft ³ (1.826 kg/l)
Compressive strength, ASTM C579 24-hour 7-day	>7,000 psi (48 MPa) >13,000 psi (90 MPa)
Tensile strength, ASTM C307 7-day	>2,500 psi (17.2 MPa)
Flexural strength, ASTM C453 7-day	>4,000 psi (27.6 MPa)
Bond strength to brick, pull blocks	Exceeds strength of brick
Water absorption, ASTM C413	0.06%
Work life/set time, ASTM C308	25-35 minutes/3-4 hours
Mix ratio, powder: resin: hardener	3.5: 1.0: 0.51
Maximum service temperature	Splash & spill 210-230°F (99-110°C) Flue gas 275-300°F (135-150°C)

ESTIMATING/PACKAGING THEORETICAL QUANTITIES – NO OVERAGE ALLOWANCE

PRODUCT	CODE	PACKAGING	MIX RATIO*
6710 Resin	19591	4 x 7.8 lb (0.8 gal) cans/case	A 157 lb unit (1.38 cu ft) consists of 1 case resin, 1 case hardener, and 2 x 55 lb bags filler.
6711 Hardener	19593	4 x 4.0 lb (0.5 gal) cans/case	
Penntrowel™ L/F Filler - Silica	19642	55 lb (25 kg) bag	

*NOTE: Mix ratios vary due to ambient air temperatures and the handling preferences of individual bricklayers. The above information is provided as a general guide only. For usage rates for specific masonry units, consult ErgonArmor estimating guide CES-145.

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.

