



## PRODUCT INFORMATION

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**CE-137**  
**10/18 Supersedes 12/13**

### ***PENNTROWEL™ EPOXY BRICK MORTAR***

#### **DESCRIPTION**

PENNTROWEL Epoxy Brick Mortar is a three-component chemical resistant thermosetting resinous mortar used for corrosion resistant masonry construction. PENNTROWEL Epoxy Brick Mortar is mixed to a buttering consistency and is applied to chemical resistant brick or tile where high bond strength, excellent abrasion resistance, and good chemical resistance are required. The mortar consists of the following components: PENNTROWEL L/F Filler-Silica, PENNTROWEL Epoxy Resin, and Epoxy Cold Room Hardener. Consult Corrosion Engineering specification CES-358 for complete installation details.

#### **AREAS OF USE**

Use PENNTROWEL Epoxy Brick Mortar wherever excellent bonding qualities and virtually impervious mortar joints are required. Examples of areas where it may be used are: floors, tank linings, towers and sump linings. PENNTROWEL Epoxy Brick Mortar is suitable for use with abrasion resistant tile and ceramic linings where high bond strength to a high alumina or other dense surfaces is required.

#### **OUTSTANDING FEATURES**

- Excellent adhesion to brick and tile surfaces.
- Cures to form nonporous, hard, abrasion resistant mortar joints.
- Good abrasion, wear and impact resistance against heavy traffic loads.
- Ideal for bonding brickwork that will be subject to pounding or vibrating forces.
- Good shelf life. Components are stable in storage.

**TYPICAL PHYSICAL PROPERTIES**

PROPERTY	PENNTROWEL EPOXY BRICK MORTAR
Color	Grey
Water absorption (ASTM C-413)	0.1%
Working time (minutes) at 70°F (21° C)	35-45
Setting time (hours) at 70° F (21°C)	1.5 - 2.5
Density (ASTM C-138)	115 lbs./cu. ft. (1842 kg per meter <sup>3</sup> )
Compressive strength (ASTM C-579)	>11,000 psi (76 MPa)
Tensile (ASTM C-307)	>2,025 psi (14.0 MPa)
Water absorption (ASTM C-413)	0.1%
Shrinkage (ASTM C-531)	0.04%
Coefficient of thermal expansion (ASTM C-531)	37 x 10 <sup>-6</sup> /° F (67 x 10 <sup>-6</sup> /C)
Maximum service temperature	225°F (107°C)

**ESTIMATING/PACKAGING THEORETICAL QUANTITIES – NO OVERAGE ALLOWANCE**

PRODUCT	CODE	PACKAGING	MIX RATIO
Penntrowel Epoxy Resin	19680	4 x 1 gal (9.2 lb, 4.17 kg) cans/case	3.0 :1.0 : 0.14 (Powder : Resin : Hardener)
Epoxy Cold Room Hardener	29447	2.3 gal (8.78 l) 20 lb (9.0 kg) jerrycan	A 153 lb (1.33 cu ft) unit consists of: 1 case Penntrowel Epoxy Resin + 5.9 lb (88 fl oz) Epoxy Cold Room Hardener + 2 x 55 lb bags Penntrowel L/F Filler-Silica
Penntrowel L/F Filler - Silica	19642	55 lb (25kg) 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 Corrosion Engineering 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 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.

