

## Pennchem<sup>™</sup> Mortar

## **SELECTION & SPECIFICATION DATA**

**Type** Vinyl ester brick mortar

**Description** Pennchem Mortar is a 2-component high

functional vinyl ester brick mortar. Pennchem Mortar Initiator may be added to speed cure at

cool temperatures.

**Uses** Pennchem Mortar is used to butter chemical

resistant ceramics such as acid brick and tile, including structural glazed tile used in pulp and

paper processing facilities.

Features • Easy workability

· Non-slumping consistency

• Rapid strength gain

· Resistant to oxidizing chemicals

• Resistant to bleaches such as chlorine and

chlorine dioxide

Limitations

 Not for use beyond its chemical resistance or thermal capabilities. Consult ErgonArmor with specific questions.

## **INSTALLATION GUIDANCE**

Reference Specifications CES-358

ErgonArmor Specification for Brick

Mortar Mixing

Installation Conditions

Pennchem Mortar is formulated for ideal handling at 70°F (21°C). For temperatures between 35°F (2°C) and 50°F (10°C), add Pennchem Mortar Initiator to accelerate cure.

Ratio 1.0 part resin: 3.75-4.0 parts powder by weight

Ratio may be adjusted slightly to suit individual brick layer or tile setter handling preferences.

1.75 fl. oz. initiator: 40 lb resin, as conditions

require

**Mixing** Pour measured quantity of resin into clean, dry

mixing vessel. Slowly add measured quantity of powder to resin and mix until thoroughly wetted. When adding Pennchem Mortar Initiator, pour measured amount of Initiator directly into the pail of resin and stir thoroughly before combining with powder as described

above.

Work Life Pennchem Mortar without Initiator:

40-60 minutes at 50°F (10°C) 30-40 minutes at 70°F (21°C) 10-20 minutes at 90°F (32°C)

Consult ErgonArmor for information on the effect of Pennchem Mortar Initiator on set time.

A larger volume of mixed material will have a shorter work life than a smaller volume.

**Cleanup** MEK

## **CURE TIME**

**Temperature** Initial Set Full Cure 70°F (21°C) 40-60 minutes 36 hours

<u>SAFETY</u>

Safety 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.

**Ventilation** Provide thorough air circulation during and after

application until the material has cured when

used in enclosed areas.



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## **PACKAGING & ESTIMATING**

Product	Code	Packaging
Pennchem Resin	19686	40 lb (18.1 kg) pail
Pennchem Powder	19685	50 lb (22.6 kg ) bag
Pennchem Mortar Initiator	19524	32 fl. oz. bottle

A 190 lb unit consists of 1 x 40 lb pail of resin and 3 x 50 lb bags of powder. Dosage rate for Pennchem Mortar Initiator when added to resin is 1.75 fl. oz of initiator per pail of resin.

Theoretical	
Coverage	

Consumption will vary based on ceramic or masonry unit size and joint width.

### Storage & Shelf Life

Maintain products in original packaging and

Maintain products in original packaging and sealed until ready for use. Estimated shelf life is 6 months when stored in a dry area at 70°F (21°C). For maximum shelf life, store resin at 40°F (4°C). Actual shelf life may vary with storage conditions.

If there is any question with respect to the quality of the components, check reactivity prior to use. For assistance consult with ErgonArmor.

## **TYPICAL PHYSICAL PROPERTIES**

Property	Typical Value
Color	White
Density, ASTM C138	116 lb/ft³ (1,858 kg/m³)
Compressive strength, ASTM C579	>12,000 psi (83 MPa)
Tensile strength, ASTM C190	>1,600 psi (11 MPa)
Absorption, ASTM C413	0.2%
Bond strength to brick, pull blocks	>275 psi (1.9 MPa)
Maximum service temperature	225°F (107°C)

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