Corrosion Engineering
A Division of ErgonArmor

PRODUCT INFORMATION

CE-250M
11/12 Supersedes 08/10

VINYL ESTER MORTAR SILICA

DESCRIPTION

Vinyl Ester Mortar Silica is a three component novolac vinyl ester resin based mortar. Supplied as a Resin, Hardener and Filler, these components are mixed to obtain a buttering consistency suitable for application onto chemical resistant masonry. Vinyl Mortar exhibits a high degree of chemical resistance, excellent bond strength, and high compressive strength. **Consult Corrosion Engineering specification CES-358 for complete installation details.**

AREAS OF USE

Vinyl Ester Mortar Silica is ideally suited for use in the chemical process and pulp & paper industries and for applications where resistance to oxidizing chemistry is required. It is suitable for use in chlorine dioxide bleach towers, tile chests, spent acid storage tanks, and waste treatment areas such as floors, trenches and sumps. Vinyl Ester Mortar has excellent resistance to bleach solutions, mineral and organic acids, alkaline solutions and some organic solvents.

Vinyl Ester Mortar Silica may be used in other chemical process, food and beverage plant applications where resistance to oxidizing chemical exposures such as nitric acid based chemistry is required. Such applications include CIP cleaner systems.

Vinyl Ester Mortar Silica is also suitable in any masonry application where mortar resistance against chlorine or other bleaching type solutions is required.

OUTSTANDING FEATURES

- Excellent properties - including high bond strength, tensile and compressive strengths, low absorption, shrinkage.
- Easy to mix and apply. Good handling and workability.
- Resistant to strong oxidizing agents, and acid bleach conditions

TYPICAL PHYSICAL PROPERTIES

PROPERTY	**VINYL ESTER MORTAR SILICA**
Color	White
Density	1.8
Working Time/ Initial Set Time: @ 10°C @ 21°C @ 23°C	75-85 / 80-90 minutes 30-40 / 35-45 minutes 10-20 / 15-25 minutes
Working Time/ Initial Set Time with PENNCHEM Mortar Initiator: @ 10°C	30-40 / 45-55 minutes
Compressive strength (ASTM C579)	96.6 MPa
Tensile strength (ASTM C307)	12.4 MPa
Bond strength to brick (Pull Blocks)	Greater than 2.1 MPa
Water absorption (ASTM C413)	0.2%
Maximum service temperature	107°C

ESTIMATING/PACKAGING THEORETICAL QUANTITIES – NO OVERAGE ALLOWANCE

PRODUCT	**CODE**	**PACKAGING**	**COVERAGE**
Penntrowel® VE Resin Clear	50112	29 Kg Pail	3.5-4.0: 1.0: 0.015 * Powder: Resin: Hardener A 130 kg unit consists of 1x 29 kg pail resin, 1x 400 gm bottle hardener, and 4 x 25 kg bags powder . Use 16-24 gm of CHP Hardener per 1.0 kg Resin or 1.5-2.25% Hardener to 1 part of Resin
CHP Hardener	50109	400 Gram Bottle	
Penntrowel® L/F Filler	50305	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.

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.