

## PRODUCT DESCRIPTION

Acid Resistant Vinyl Ester Resin Mortar (ARVM™) is used in the construction of floors, sumps, trenches, tanks, vessels and bleach towers in chemical processing; food & beverage plants; dairies; laboratories; textile, steel and pulp & paper mills. ARVM™ has excellent resistance to oxidizing bleach solutions, mineral and organic acids, alkaline solutions and some organic solvents. When used with chemical resistant masonry units and the proper membrane, ARVM™ will protect concrete and steel substrates from chemical attack and physical abuse. ARVM™ is a silica filled vinyl ester mortar supplied in two parts - Powder and Liquid - which must be mixed together in the proper proportions prior to use.

## PRODUCT FEATURES

- Resistant to strong oxidizing agents, acids, alkalis and bleaches through 250oF (121oC).
- Low absorption and shrinkage.
- High bond, tensile and compressive strengths.
- Rapidly develops physical properties ...initial set time is one hour 70oF.

## TECHNICAL DATA

Working time	30°C 20 minute min
Color	white
Density of cured mortar	1.7 to 1.75 gm per CC
shelf life(powder)	2 year in dried condition at 27°C
shelf life (Liquid)	1.5 month at 27°C in close container
Maximum service temperature (ASTM D-648)	250oF (121oC)
Bond strength	10 kg./CM2
Compressive Strength	500 kg./CM2
Water absorption	.30%
Flexural Strength	300 kg./CM2

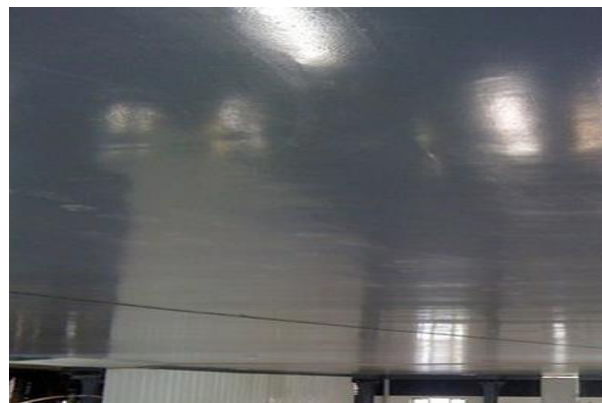
## HOW TO USE

### Mixing

Empty correct proportion of Liquid into a clean mixing vessel. Gradually add measured amount of Powder while mixing continuously with a trowel, hoe or mechanical mixer until mortar is uniformly blended to a workable consistency. After mixing, spread mortar in a thin layer onto a mortar pan to ensure the maximum working time of 25 minutes at 70oF. Low Temperature Accelerator may be added to assist workability and cure as needed. Never add Liquid or other materials to mixed material or any component part.

### Installation

Trowel an average 4.5 cm thick bed joint of ARVM™ directly on top of membrane or preceding course of brickwork. Apply the mortar by buttering on side and one head joint of each masonry unit. Set the masonry units in place and position by tapping to form an average 4.5 cm wide vertical joint.



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## APPLICATION

Vinyl Ester Mortar ARVM™ is used in the construction of floors, sumps, trenches, tanks, vessels and bleach towers in chemical processing; food & beverage plants; dairies; laboratories; textile, steel and pulp & paper mills.

## SETTING/CURING

ARVM™ is self-hardening due to a chemical reaction which occurs when the Powder and Liquid are mixed together. An initial set occurs in one hour at 70oF. The material is ready for service after 24 hours at 70oF. Brickwork should not be subjected to water, steam or chemical environment before the mortar is completely cured.

## FINISHING

Strike extruded mortar off the face of the masonry unit with a trowel. For floors where appearance is a factor, waxed face units are recommended.

When waxed units are used, wait until ARVM™ Mortar has achieved full cure (24 hours at 70oF) and clean face of masonry units using 60 psi (minimum) steam pressure at the nozzle.

## HANDLING

Consult Material Safety Data Sheets and container label Caution Statements for hazards in handling these materials.

## CLEANUP

All equipment should be cleaned with acetone or MEK before ARVM™ cures. If removal is required after cure, consult for recommendations.

## FIRST AID

User must read the most recent corresponding Safety Data Sheets before using any products. For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

### **DISCLAIMER OF LIABILITY**

AFZIR, LLC warrants its products to be free from manufacturing defects. Buyer determines suitability of product for use and assumes all risks. Buyer's sole remedy shall be limited to replacement of product. Any claim for breach of this warranty must be brought within six months of the date of purchase.

AFZIR shall not be liable for any consequential or special damages of any kind, resulting from any claim or breach of warranty, breach of contract, negligence or any legal theory.

The Buyer, by accepting the products described herein, agrees to be responsible for thoroughly testing any application to determine its suitability before committing to production.