DATA SHEET
UNIQUE® Overhead & Vertical Repair Mortar

Product Description
UNIQUE® Overhead & Vertical repair Mortar is a volume stable special blend of Pozzolanic Cement, proprietary ingredients and blended polymers.

Recommended Uses
Use for vertical and overhead non-structural repairs to concrete, mortar, brick, stone and mortarless stack and bond block applications.

Benefits / Features
- Excellent bond strength
- Excellent adhesion to concrete surfaces
- Self-curing
- Interior or exterior use
- Freeze-thaw resistant
- Sulfate resistant
- Can be placed from featheredge to a 4″ maximum thickness
- User friendly
- Easy clean up with water

Limitations
Not intended for applications on unsound concrete or like surfaces. Do not use when temperature is less than 40° F.

Surface Determination
Why has the concrete failed? Is there presence of salt, freezing damage, drainage water, deteriorated control or expansion joints? The surface area to be repaired should be in solid condition.

Surface Preparation
The area to be repaired should be checked with a chipping hammer to ensure the exposed concrete is not scaling. If a section of concrete is deemed to be questionable, complete removal and replacement should be considered. Patching over control or expansion joints is not recommended. The quality and durability of your repair depends on the surface to be patched. Remove loose concrete, mineral salts, grease and paint that will limit bonding performance. Mineral salt should be treated with an acid wash to ensure its removal. Exposed rebar should be free of rust or scaling

then protected with a zinc oxide coating to reduce the probability of future rust development. Wet the repair area with water leaving it Saturated Surface Dry (SSD) during the repair. Any standing water should be removed.

For Best Results
For best results the water temperature should be between 55ºF and 75ºF.
- Warmer water will accelerate the set of material
- Cooler water will slow the set of the material

Mixing
Organize work so that all personnel and equipment are in place before mixing. Roll or shake the sealed pail of **UNIQUE** OHVR to ensure the product is thoroughly mixed prior to use. Use clean, potable water. The use of a mortar mixer or variable speed drill is recommended. **UNIQUE** OHVR may be mixed using the percentages of water as shown in the table below:

Water	UNIQUE® Overhead Vertical Repair Mortar
35 - 40 oz.	10#
70 - 80 oz.	20#
5 - 5.75 qt.	50#

Use less water to achieve higher strengths. Do not exceed the recommended water percentage.

Place the desired quantity of water into the mixing container. While the mixer is running add **UNIQUE** OHVR. Mix for the minimum amount of time required to achieve a lump-free, uniform consistency (usually 1 to 3 minutes). Let material false set for 1-3 minutes to ensure the polymers have had time to hydrate. Re-blend material for 2-3 minutes to achieve a uniform consistency.

Placement
Make sure surface is SSD and any standing water has been removed. Firmly place mix into patch areas. Work from bottom of repair to top. For deep fill areas apply a stiff mix in layers to achieve desired thickness. **UNIQUE** OHVR

can be placed from featheredge to a 4″ maximum thickness. Do not mix more material than can be placed in 45 minutes.

Coverage
10 pounds of **UNIQUE** OHVR mortar yields approximately 0.11 cubic foot of product when mixed with 40 ounces of potable water.

Shelf Life
Two years if stored in an unopened pail according to ACI Guidelines.

Clean up
Water soluble prior to drying. Clean container and tools prior to material drying.

Curing
Damp cure all installations. Begin curing as soon as the surface has lost its moist sheen. Keep exposed surfaces wet for a minimum of 1 hour. When experiencing extended setting times due to cold temperature or the use of retarder, longer cure times may be required. The objective of damp curing shall be to maintain the continuously wet surface until the product has achieved sufficient strength.

Temperature
Warm environmental and materials temperatures will reduce the working time. To compensate for warm temperatures, keep material cool and use chilled water. Temperatures below 60ºF will decrease the rate of strength gain. **UNIQUE** OHVR mortar should not be applied if surface temperature is below 45ºF or above 90ºF.

Freight
Class 55

Packaging

Item #	Description		
52-00028	UNIQUE® Overhead & Vertical Repair Mortar Pail 1-gal (10#)	120 - 10# pails per stretch wrapped pallet 3360 - 10# pails per truckload	
52-00029	UNIQUE® Overhead & Vertical Repair Mortar Pail 2-gal (20#)	60 - 20# pails per stretch wrapped pallet 1680 - 20# pails per truckload	
52-00010	UNIQUE® Overhead & Vertical Repair Mortar Pail 5-gal (50#)	36 50# pails per stretch wrapped pallet 828 - 50# pails per truckload	
Special	UNIQUE® Overhead & Vertical Repair Mortar Poly Lined Bag (50#)	60 - 50# bags per stretch wrapped pallet 840 - 50# bags per truckload Minimum order 2,000 bags	

Truckload quantities are typical but may vary depending on destination, truck tare weight and/or trailer type (box van, flat bed, rail shipments or ocean freight container).

Caution:
This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive problems. THIS PRODUCT CONTAINS FREE SILICA. Any inhalation of dust may be harmful to your health. Excessive inhalation causes the risk of serious respiratory disease (SILICOSIS) and susceptibility to other possibly fatal disease. Some medical studies suggest a possible association between crystalline silica and incidence of cancer in humans. Take appropriate protective measure to avoid breathing dust. Use a NIOSH approved respirator for silica dust. For further information, please refer to the Safety Data Sheet.

Another Quality Product Available From
UNIQUE Paving Materials Corp.
3993 East 93rd Street Cleveland, OH 44105
800-441-4880   www.uniquepavingmaterials.com

Caution Cont'd:

Injurious to eyes and causes skin irritation. Contains Portland Cement and Lime. Avoid eye contact or prolonged contact with skin. Wash thoroughly after handling. In case of eye contact, flush with plenty of water for at least 15 minutes. Consult a physician immediately if irritation persists. Keep out of reach of children. Do not take internally.

Limited Warranty:

UNIQUE Paving Materials Corporation (UNIQUE) warrants that at the time and place we make shipment our materials will be of good quality and will conform with our published specifications in force on the date of acceptance of the order. THE FOREGOING WARRANTY SHALL BE EXCLUSIVE AND IN LIEU OF ANY OTHER WARRANTY, EXPRESSED OR IMPLIED. WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE AND ALL OTHER WARRANTIES OTHERWISE ARISING BY OPERATION OF LAW, COURSE OF DEALING, CUSTOM OR TRADE OR OTHERWISE ARE SPECIFICALLY DISCLAIMED. As the exclusive remedy for breach of this warranty, we will replace defective materials, provided, however, that the buyer examines the material when received and promptly notifies us in writing of any defect before the materials are used or incorporated into structure. Three (3) months after UNIQUE has shipped the materials, all our warranty and other duties with respect to the quality of the materials delivered shall conclusively be presumed to have been satisfied, all liability therefor terminates, and no action for breach of any duties may thereafter be commenced. UNIQUE shall in no event be liable for consequential damages. No warranty is made with respect to materials not manufactured by UNIQUE.

UNIQUE® is a registered trademark of Unique Paving Materials Corp.

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