



POLISHABLE MORTAR

TECHNICAL DATA SHEET

PRODUCT DESCRIPTION

Diamakrete Polishable Mortar is a user friendly, fast setting, non-shrink, polymer modified, high strength repair mortar with exceptional bond strength. Easy to use, self priming formula is specifically designed for repairing concrete floors with fast return to service times. Typical uses include failed concrete joints, spalls and cracks. Diamakrete Mortar has been poured 6" thick without cracking or crazing. Diamakrete Polishable Mortar can be polished to a high shine using conventional polishing equipment and readily accepts most stains and dyes. Mix Diamakrete Polishable Mortar with Diamakrete Acrylic M.

FEATURES

- Concrete gray color
- 3 hour return to service for forklift traffic
- Flowable, self-priming formula for ease of use
- Pre-wetting (SSD) of substrate is not necessary
- Will bond to damp (no standing water) concrete
- High bond strength for maximum repair reliability
- Non shrink formula – 28 day shrinkage is nil
- Simple 4:1 mix ratio
- Readily accepts most dyes and stains
- Polishes to a high shine
- Fast setting; can be wet polished in under 90 minutes
- Extremely hard and abrasion resistant when cured
- Low heat generation while curing minimizes risk of cracking
- Can be extended with pea gravel for large repairs

TYPICAL DATA

<u>Compressive Strength</u> <u>(ASTM C109)</u>		<u>Slant Shear Bond</u> <u>(ASTM C882 modified)</u>		<u>Flexural Strength</u> <u>(ASTM C348)</u>		<u>Drying Shrinkage</u> <u>(ASTM C596)</u>	
90 minute	1930 psi	3 hour	2100 psi	3 hour	1120 psi	1 day	0.00%
3 hour	2980 psi	3 day	3080 psi	7 day	1640 psi	7 day	0.01%
28 day	7160 psi	28 day	3860 psi	28 day	1730 psi	28 day	0.02%

SURFACE PREPARATION

Surface should be clean and free of standing water prior to application with all loose and deteriorated concrete removed. Surface must be free from oil, dust, dirt, grease, laitance and other bond inhibiting contaminants. Vacuum, brush with stiff bristle brush and vacuum again prior to repairing. Residual concrete dust will result in bond failure. As an option Diamakrete Mortar may be applied to surface saturated dry concrete (SSD). Clean surface with water and remove all standing water prior to application.

MIXING and APPLICATION

Mix 4 parts powder to 1-part acrylic polymer. Pour approximately 90% of liquid in a mixing container and then add powder component. Mix by hand or paddle until smooth and creamy. Add remaining liquid a little at a time to achieve correct consistency. Mixed product should readily flow when mixing container is tipped to the side, without being runny. Adjust mix with liquid or powder, as needed, to attain proper consistency. Caution: Mortar mixed with insufficient acrylic may not bond properly.

Pour mixed product into area to be repaired and spread with a trowel or putty knife. Minimum repair depth for Diamakrete Mortar is ¼". Repairs less than ¼" deep should be made using Diamakrete Polish Grout.

Polishing- After repairs are sufficiently dry-about 1 hour- use hand held polisher equipped with 100 grit diamond pad or 150 grit flexible metal grinding wheel (Zered or equal) to grind off surface polymer and excess cement, being careful to not grind into sand aggregate. Slightly bevel the edges of the repair to eliminate lippage. Repair can be wet ground or misted with water to suppress dust and to aid in grinding. After grinding with hand polisher transitions should be smooth with the body of the repair slightly above finished floor level. After grinding with hand polisher continue process, wet or dry, with diamond polishing/ grinding equipment. Repairs should be made as early as possible, generally, no later than after the initial grind. OVERNIGHT DRYING OF MORTAR PRIOR TO GRINDING IS NOT RECOMMENDED.



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PACKAGING

Available in 50lb. bags or in 50lb. box kits packaged with 1 gallon of Diamakrete Acrylic Polymer M.

COVERAGE

Each 50 lb. bag mixed with Diamakrete Acrylic will cover approximately 17.25 SF at ¼" depth.

WORKING TIME

10-15 minutes at 75°F and 50% relative humidity.

STORAGE

Protect Mortar from moisture; store packages tightly closed.

Keep Acrylic Polymer from freezing, if product freezes allow it to thaw completely, undisturbed.

Keep out of reach of children.

Not for internal consumption.

CLEANUP

Uncured mortar cleans up with water. Cured mortar must be removed by mechanical means. Liquid acrylic cleans up easily with water. Cured acrylic can be difficult to remove.

VOC COMPLIANCE

Diamakrete Acrylic contains no VOC's.