



# Diamond Wall PM Concentrate & Admixture

A Cementitious, Fiber-reinforced, Polymer-modified Base Coat



## Coverage

Approximately 8yd<sup>2</sup> to 10yd<sup>2</sup> (6.7m<sup>2</sup> to 8.4m<sup>2</sup>) per bag and half pail at 3/8" thick. *Actual coverage is dependent on conditions of substrate, detail, weather and individual application techniques.*

## Packaging

Diamond Wall PM Base Coat is packaged in a moisture resistant, 80lb (36.3kg) bag.

Diamond Wall PM Admix is packaged in a 3.5 gallon (13.3L) pail.

## Storage

1. Store components in a cool, dry location.
2. Store away from direct contact with the ground and/or concrete.
3. Store out of direct sunlight.
4. Protect bags from weather and other damage.
5. Protect liquid from freezing or extreme hot weather.

## Shelf Life

1 year

## Color

Diamond Wall PM Base is a natural grey cement color. Diamond Wall PM Admix is a white colored liquid.

## Product Description

**T**he Diamond Wall PM System offers an upgrade to current one coat stucco systems by providing improved crack resistance, flexural and tensile strength, and impact resistance.

It is a two-part system consisting of:

1. Diamond Wall PM Concentrate: A factory prepared blend of portland cement complying with ASTM C150, chopped fibers, and proprietary ingredients.
2. Diamond Wall PM Admixture: A 100% acrylic polymer liquid additive and proprietary ingredients.

The Concentrate and Admixture are field mixed with sand and water.

Features	Benefits
Acrylic Modified	No water curing required, eliminates telegraphing of mortar lines in CMU construction
Fiber-reinforced	Reduced cracking
Single Application with 24-hour Cure Time	Reduced labor and scaffolding costs; schedule savings
Durable	Superior weathering properties
1-hour Fire-resistive-rated	Single-family, multi-family, and commercial applications

## Basic Uses

Diamond Wall PM is designed for use as a base coat in residential and commercial wall assemblies. It provides an ideal base coat for the application of OmegaFlex or AkroFlex Acrylic Finishes and ColorTek Stucco. Diamond Wall PM exceeds ASTM C926 requirements for scratch and brown coats and may be used in three coat stucco applications. For one coat stucco systems refer to ICC-ES ESR-1194 report.

## Area of Use

Diamond Wall PM may be applied over the following substrates:

1. Wood or OSB
2. Exterior grade gypsum sheathing/glass mat reinforced gypsum sheathing
3. Fiber board
4. EPS, XEPS, or polyisocyanurate foam boards
5. Masonry
6. Poured-in-place and/or tilt-up concrete
7. Other approved cementitious boards
8. Lath (three coat application only)

## Optional Product Upgrades/Enhancements

PRODUCT	BENEFIT
OmegaCure	Liquid accelerator to improve hydration, increase early strength/hardness, and allow cold weather application
Crack Isolation System	Supplementary system designed to mitigate surface cracking in new and existing plaster systems by integrating woven fiberglass mesh into the base coat or brown coat prior to applying the finish

## Surface Preparation

### Solid Substrates

For solid substrates, such as concrete or masonry, surfaces to receive application must be structurally sound, clean and free of debris, dirt, dust, efflorescence, grease, oils, curing agents, and cleaning solutions. Repair cracks with the appropriate patching material for the existing substrate as needed. Bonders or admixtures may be required to ensure proper adhesion.

### Framing

Ensure substrates, water-resistive barrier, and lathing have been installed and inspected as required by ICC-ES ESR-1194 report, Omega Product's literature, and/or local building codes as applicable.

## Mixing

1. Add 3.5 gallons (13.3L) of potable water to a mixing apparatus.
2. Add one 3.5 gallon (13.3L) pail of Diamond Wall PM Admix.
3. Add two 80lb (36.3kg) bags of Diamond Wall PM Base Coat.
4. Add 320lb (163kg) to 480lb (218kg) of plaster sand, meeting ASTM C144 and/or ASTM C897. Amount of sand added may vary due to moisture content and/or composition of plaster sand.
5. Add only enough water to achieve desired consistency.
6. Mix for 3 to 4 minutes at normal mixing speed, shut off the blades for 2 to 4 minutes. Restart the blades to break the initial set and add only enough water to achieve the desired consistency.

**NOTE:** Continuous or excessive mixing may cause excessive air entrainment. Excessive water in the mix will weaken the material and/or cause shrinkage cracking.

## Application

Diamond Wall PM can be hand troweled or machine applied.

1. Apply the mixed Diamond Wall PM per ICC-ES ESR-1194 for one coat application or ASTM C926 for three coat application.
2. Rod or screed to achieve a uniform surface.
3. Float the freshly applied Diamond Wall PM to ensure even suction.

**NOTE:** When applying Omega ColorTek or other cement-based finishes over Diamond Wall PM, the use of a bonding agent or acrylic admix is required to ensure proper bond. The recommended volume of admix to be used is one to two quarts of Omega AkroLoc or two to three quarts of Omega Admix 500 per 90-lb sack of ColorTex. Omega BondCrete or AkroLoc are recommended bonders. See the applicable Omega data sheet for additional information.

## Curing

Provide sufficient moisture in the plaster mix or by moist or fog curing to permit continuous hydration of the cementitious materials. The length of time and most effective procedure for curing will depend on climatic and job conditions. Product should fully cure in 7 to 28 days following application. Curing time may vary due to ambient temperature, surface temperature, surface porosity, application methods, and/or thickness of material. All freshly applied material must be protected by an approved protective system from inclement weather until material has sufficient strength not to be damaged.

## Limitations

**DO NOT** apply product when the ambient and surface temperature is below 40°F (4°C).\* When hot, dry, or windy conditions exist, protection must be provided. The ambient and surface temperature must maintain the above requirements until fully cured (See CURING). Material that is allowed to freeze may suffer irreparable damage. Protect all work from inclement weather with an approved protective system until fully cured.

**DO NOT** add any other materials to the mixture of the product without written approval from Omega Products International.


**DO NOT** deviate in the mixing or application procedures contained in this, or any other Product Data Sheets, without written approval from Omega Products International.

**DO NOT** apply Diamond Wall PM if there are contaminants on the receiving surface. Contaminates may include, but are not limited to, dust, debris, efflorescence, and/or oils.

**DO NOT** add any more water than prescribed.

**DO NOT** use excessive amounts of water when floating.

**NOTE:** Failure to follow manufacturer's written specifications could result in the following, but not limited to spalling, cracking, peeling, chipping, delamination, discoloration, wash off, and overall system failure.

 To ensure proper hydration in cold weather applications (approximately 50°F to 32°F) use OmegaCure admix. Refer to OmegaCure data sheet for additional information.

## Cleaning

Cleaning may be accomplished with water immediately after use.

## Safety

Avoid contact with eyes or prolonged contact with skin. Wash thoroughly after handling. In case of eye contact, flush immediately with running water for at least 15 minutes. Consult a physician immediately. Do not take internally. Be sure to provide adequate ventilation in enclosed areas. Use of an approved respirator is recommended.

**KEEP OUT OF REACH OF CHILDREN**

### Disclaimer

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for his/her independent use, assuming all risks and liability whatsoever in connection therewith. This writing constitutes a complete and exclusive statement of the understanding between Manufacturer and Buyer.

### Claims

Any Claimant shall notify Manufacturer immediately in writing of any alleged defect in the material. Claimant will provide Manufacturer with a reasonable and exclusive opportunity to investigate and test for the alleged defect.

For any claim that is not valid Claimant agrees to pay Omega's reasonable charges, including travel and labor associated with investigation of such claim.

### Technical Assistance

Technical assistance and information is available by calling Omega Products International at (800) 600-6634 or FAX (951) 520-2594 or by e-mail at [info@omega-products.com](mailto:info@omega-products.com).

### Warranty

The following is made in lieu of all expressed and implied rights, warranties and conditions, statutory or otherwise. The manufacturer's only obligation shall be to replace such quantity of products proven to be defective within one year following the date of manufacture, provided that the alleged defective product is returned prepaid to the manufacturer's plant and is accompanied with proof of purchase and batch number.