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**

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

**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**

<table>
<thead>
<tr>
<th>PRODUCT</th>
<th>BENEFIT</th>
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<tbody>
<tr>
<td>OmegaCure</td>
<td>Liquid accelerator to improve hydration, increase early strength/hardness, and allow cold weather application</td>
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<tr>
<td>Crack Isolation System</td>
<td>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</td>
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</table>

**Coverage**

Approximately 8yd² to 10yd² (6.7m² to 8.4m²) 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.
Application Instructions

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-resistant barrier, and laithing 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 entrapment. 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 most effective procedure for curing will depend on climatic and job conditions. The length of time and

Limitations

DO NOT apply product when the ambient and surface temperature is below 40°F (4°C). The ambient and surface temperature must maintain the above requirements until material has sufficient strength not to be damaged (See CURING). Material that is allowed to freeze may suffer irreparable damage.

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 and 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 contaminates 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