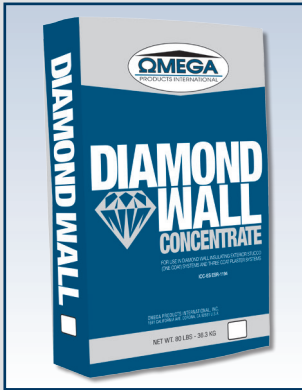




# Diamond Wall Concentrate

A Cementitious, Fiber-reinforced, Stucco Base



## Coverage

Approximately 8yd<sup>2</sup> to 10yd<sup>2</sup> (6.7m<sup>2</sup> to 8.4m<sup>2</sup>) at 3/8" thick. Coverage may vary due to ambient temperature, surface temperature, surface porosity, mixing and/or application methods.

## Packaging

Moisture resistant, 80lb (36.3kg) bags

## Storage

1. Store bags 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.

## Shelf Life

1 year

## Color

Natural grey

## Product Description

**D**iamond Wall Concentrate (DWC) is used in the Diamond Wall Stucco Systems and is a factory prepared blend of portland cement complying with ASTM C150, chopped fibers, and proprietary ingredients field mixed with sand, water, and an optional admix.

## Features

## Benefits

|   |  |
|---|--|
| <i>Durable</i>  | Superior weathering properties                           |
| <i>Fiber-reinforced</i>   | Reduced cracking when cured properly                     |
| <i>Single application with some finish coats able to be applied within 24-hours</i> | Reduced labor and scaffolding costs; schedule savings    |
| <i>1-hour Fire-resistant-rated</i>  | Single-family, multi-family, and commercial applications |

## Basic Uses

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

## Area of Use

Diamond Wall Concentrate 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   |
|---------------------------|---|
| E-FX Admix                | Liquid admix to reduce efflorescence  |
| AkroLoc/PolyLoc/Admix 500 | Liquid admixtures that reduce cracking and increase tensile, bond, and flexural strengths   |
| 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 |
| Diamond Wall PM           | Premium one coat stucco system with improved crack resistance, flexural and tensile strength, and impact resistance   |

## 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 approximately 4 to 6 gallons (15.1L to 22.7L), per bag, of potable water to mixing apparatus.
2. Add Diamond Wall Concentrate and optional admix per admix data sheet.
3. Add 160lb to 240lb (72.6kg to 108.9kg) 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.
4. Mix for approximately 3 to 5 minutes.
5. Stop mixer and allow the material to take its initial set.
6. Material may be retempered once adding only enough water to reach the desired consistency.

NOTE: Do not over mix.

## Application

Diamond Wall can be hand troweled or machine applied.

1. Apply the mixed Diamond Wall 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 to ensure even suction.

## 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).\* 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 or application procedures contained in this, or any other Product Data Sheets, without written approval from Omega Products International.


**DO NOT** apply Diamond Wall 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** saturate the wall during preparation and/or water curing.

**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**

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### 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.