



Coverage

Approximately 8yd² to 10yd² (6.7m² to 8.4m²) per bag 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 color

Product Description

Diamond Wall Concentrate (DWC) is the base coat for the Diamond Wall Stucco Systems. DWC 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

Durable

Fiber-reinforced

Single application with some finish coats able to be applied within 24-hours

1-hour Fire-resistant-rated

Benefits

Superior weathering properties

Reduced cracking when cured properly

Reduced labor and scaffolding costs; schedule savings

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 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
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 by fog or moist curing to permit proper hydration of the Diamond Wall. 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 cured. It is the responsibility of the applicator to determine if the product is cured and/or dry prior to exposing it to rain, snow, dew, and/or any other inclement weather condition that may be detrimental to the product.

Limitations

DO NOT apply product when the ambient and surface temperature is below 40°F (4°C).^{*} When hot, dry, or windy conditions exist, moist curing and 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, Inc.

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, Inc.

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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the control of Manufacturer; therefore, no warranty is made, expressed or implied, as to the results obtained from the use of the product or against any claims for infringement of patents resulting from use of the product. Under no circumstance shall Manufacturer be liable for incidental or consequential damages arising out of the use or the improper application of the product. Before applying the product, the user shall determine the suitability of the product 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, Inc. at (800) 600-6634 or FAX (951) 520-2594 or by e-mail at 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.