

# Super Cement

Enhanced three coat stucco system

PRODUCTS INTERNATIONAL

Super Cement is an excellent choice for scratch and brown coat in three coat stucco applications. Three coat stucco is recognized in the IBC/IRC building codes and remains one of the most popular exterior cladding choices for both residential, multi-family, and commercial projects. Super Cement offers a single source, durable, fire-resistant cladding with industry leading technical support and system warranties.

## System Description

Three coat stucco is applied in three layers: ~ 3/8-inch thick scratch coat, ~ 3/8-inch brown coat, and ~ 1/8-inch finish coat. The approximately 7/8-inch system is applied by hand or machine over an approved water-resistive barrier and metal lath.

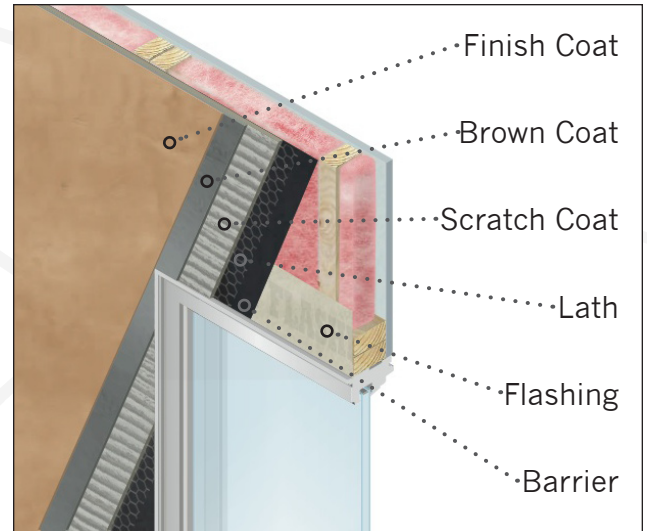
Super Cement is a mixture of portland cement complying with ASTM C150 and proprietary ingredients that increase the workability and early strength of the product. Super Cement is a superb alternative to plastic cement and meets or exceeds job site requirements for portland cement plaster with lime. Super Cement is available either in fibered or non-fibered.

## Design Considerations

- May be applied over steel or wood framed construction over one of the following:
  - ASTM C1082, C933, C847 lath over open framing
  - ASTM C1396 water-resistant gypsum sheathing
  - ASTM C1177 glassmat faced gypsum sheathing, such as Densglass Gold from GP
  - ASTM C1325 cement boards, such as Durock from USG
  - ASTM C1278 gypsum fiber panels, such as Aqua Tough from Fiberock Brand
  - Exterior grade or exposure 1 plywood
  - Exposure 1 OSB
  - Poured concrete or masonry
- Available in one-hour fire-resistive-rated assemblies
- Available in non-combustible assemblies
- Meets ASTM C926 requirements for portland cement plaster mix with lime
- Refer to the local code or ASTM C926 for three coat stucco design and application requirements

## Uses

Super Cement is an excellent exterior wall cladding for new or retrofit residential, multi-family, commercial, or institutional projects.



## SUPER CEMENT ADVANTAGES

<i>Economical</i>	Low installation and life-cycle costs with a system that will last decades with little maintenance
<i>Durable and impact resistant</i>	Can withstand years of weather and physical abuse
<i>Cement-based</i>	Fungus, rot, and insect resistant
<i>Fire-resistant</i>	Non-combustible and available in 1-hour fire-resistant-rated assemblies
<i>Acceptable base coat for a variety of finishes</i>	Stucco, acrylic, paint, and stone are all finish options
<i>System Warranty</i>	Up to 15 years when used in combination with other Omega products

Approved by:

Date:

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## System Components

The following products are components in the Super Cement system. Please see the product's data sheet for additional information.

### Water-resistive Barrier<sup>1</sup>

- Minimum No. 15 asphalt nonperforated felt complying with ASTM D 226 for Type I (IBC or IRC) or asphalt-saturated rag felt complying with UL Standard 55A (UBC)
- Minimum Grade D kraft building paper complying with UBC Standard 14-1 or ICC-ES Acceptance Criteria for Water-resistive Barriers (AC38)
- Material recognized in a current evaluation report as complying with the ICC-ES Acceptance Criteria for Water-resistive Barriers (AC38)

### Lath<sup>1</sup>

See ASTM C1063 for additional lath requirements.

- Woven Wire (17-gage): Nominal No. 17 gage [0.058 inch], 1½-inch opening, galvanized steel complying with ASTM C1032.
- Welded Wire: Nominal No. 16 gage [0.065 inch], 2-inch-by-2-inch opening, galvanized steel complying with ASTM C933.
- Metal Lath: Complying with ASTM C847 (IBC or IRC) or with Table 25-B of the UBC as applicable

### Base Coat

Super Cement: A mixture of portland cement complying with ASTM C150, proprietary ingredients, and optional fibers.

### Sand<sup>1</sup>

Sand shall be clean and free from deleterious amounts of loam, clay, silt, soluble salts, or organic matter and shall be graded in accordance with ASTM C897 or the sand must have a demonstrated performance record in similar construction and climate conditions.

### Finishes

A variety of finish options are available:

- OmegaFlex Finishes: 100% acrylic-based finishes
- AkroFlex Finishes: 100% acrylic-based finishes
- AkroSil Finishes: Silicon enhanced acrylic-based finishes
- Akrolastic Finishes: Elastomeric acrylic-based finishes
- ColorTek Stucco: Portland cement-based stucco finishes
- AkroCoat: 100% acrylic paint
- Elastomeric 44: Elastomeric acrylic-based coating
- Valentino Finishes: Approved Valentino Finishes

## System Components

The following products are optional upgrades to the Super Cement Three Coat System. The use of these products will increase the system's warranty.

### Admixture<sup>2</sup>

An optional Omega admixture may be added to Super Cement for increased tensile, bond, and flexural strength.

- Acrylic Bonder (AkroLoc): A 100% acrylic polymer bondor or admixture
- PVA Bondor (PolyLoc): Poly-vinyl acetate (PVA) bondor and admixture
- Admix 500: A 100% acrylic polymer admixture
- DWC Accelerator (OmegaCure): A non-corrosive liquid admixture for accelerating the hydration of cement plaster

### Primer

- OmegaFlex or AkroFlex primer is recommended when using acrylic-based finishes.

## Installation & Design Requirements

- Do not add additional plasticizers to Super Cement mix.
- Substrates must be structurally sound, clean, and dry without planar irregularities greater than ¼-inches in 10-feet.
- Maximum allowable deflection of structural wall components is 1/360 of the span.
- Expansion joints should be installed as detailed in ASTM C1063. Final expansion and control joint design and location are the responsibility of the design professional.
- Store and apply all component products per the product's data sheet.
- Do not use below grade. Terminate a minimum of 4-inches above grade, 2-inches above finished grade, or as specified by local code.
- All openings shall be properly flashed and designed to allow water to escape to the outside of the wall.
- All penetrations shall be properly flashed and/or sealed using approved methods.
- Walls should be designed to prevent bulk water from getting behind the stucco or running down the face of the stucco. The bottom of wall should have weep screed or another effective means to drain any water that may get behind the stucco.
- To reduce the likelihood of the stucco cracking, it is recommended the building carry a minimum of 90 percent of the dead building load and the interior gypsum be installed prior to installation of the stucco.
- Wood-based sheathing should be gapped 1/8-inch to allow for expansion and be attached per code requirements using corrosion resistant fasteners.
- Provide sufficient moisture to permit continuous hydration of the cementitious materials during initial curing. The most effective procedure for curing will depend on climatic and job conditions. Refer to local code or ASTM C926 for additional requirements.
- Do not apply Super Cement when the ambient and surface temperature is below 40°F (4°C). The use of DWC Accelerator (OmegaCure) will improve the hydration of Super Cement at low temperatures.
- Plaster coats shall be protected from freezing for a period of not less than 24-hours after set has occurred.
- Protect applied product from inclement weather until set.
- Brown coat may be applied once the scratch coat has sufficient strength to hold the brown coat or as local codes permit. The time between coats will depend on climatic and job conditions.
- Over masonry or cementitious substrates Super Cement may be directly applied a maximum of ½-inch thick or as local code permits. Surfaces must be free from oil or other elements that could interfere with bonding. To improve the bond to the masonry or cement substrate, Omega Products recommends the use of Bondcrete. Applications over ½-inch require the use of lath.
- Sufficient slope on faces of plastered surfaces shall be provided to prevent water, snow, or ice from accumulating or standing.
- Optional EPS foam plant-ons may be used to add architectural detailing.

### Crack Isolation

- To help reduce the likelihood of cracking, an optional layer of fiber-glass mesh may be embedded into the Super Cement brown coat or a skim coat with mesh may be applied over the Super Cement base coat. See Omega's Crack Isolation System technical bulletin for more information.

<sup>1</sup>Manufactured by others

<sup>2</sup>When optional an acrylic admix is used, ColorTek Stucco or other cementitious finishes require the use of a bonding agent or an acrylic admixture.

### Disclaimer

Omega Products International, Inc. [Manufacturer] MAKES NO WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE PRODUCT(S) SOLD HEREIN. The recommendations, suggestions, statements and technical data are based on the best knowledge available to Manufacturer and are given for informational purposes ONLY and without any responsibility for their use. It is expressly understood and agreed, as a condition of the use of this product, that the buyer's sole and exclusive remedy for any claimed defective product against Manufacturer shall be the replacement of products actually proven to be defective. Handling and use of the products are beyond

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.



The Professional's Choice