

Finestone Stucco Wall System with MasterSeal 581

Direct applied fiber-reinforced hard-coat stucco system featuring MasterSeal® 581.

System Description

Finestone Stucco is a direct applied cement plaster stucco system for concrete and CMU featuring MasterSeal 581 waterproof cement-based coating with cement plaster component applied to a thickness of up to 5/8". Optional Finestone base coat and BASF DiamondShield™ reinforcing mesh are available for superior crack suppression. Finishes are available in a limitless color selection. Performance enhancement options include increased resistance to dirt pick-up and mildew, and specialty finishes that create stone-like, metallic or mottled stucco appearances. The system features easy installation, proven durability and low maintenance.

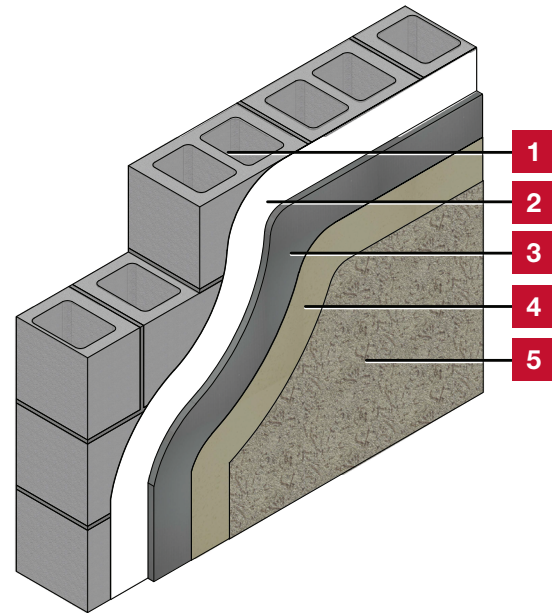
Integrated system components include MasterSeal 581, StuccoBase™ / StuccoBase Premix, optional Stucco Prime, and 100% acrylic polymer finish. Apply the system over poured concrete and unit masonry substrates.

Uses

New or retrofit residential, institutional and commercial construction such as hotels, hospitals, retail centers, schools, multi-family apartments, condominiums, and government facilities.

Advantages

- Resistant to impact and punctures; good for high traffic areas
- DiamondShield reinforcing mesh option further increases crack resistance
- Durable
- Susceptibility to efflorescence can be reduced by using Stucco Prime
- Additional safeguards against incidental moisture intrusion
- Direct applied removing the need for lath and mechanical fasteners
- Factory prepared StuccoBase minimizes potential site mixing errors; improves quality control
- Fire-resistive properties
- Low maintenance and life-cycle cost
- Elastomeric finish coat bridges hairline cracks
- Wide color and texture choices
- Fade-, abrasion- and dirt-resistant finishes contribute to low maintenance and life-cycle costs
- EPS shapes integrate into the system for economical architectural detailing
- Wide selection of finish textures, standard colors and unlimited custom colors



1. Concrete Masonry Units*
2. MasterSeal 581
3. BASF StuccoBase
4. BASF StuccoPrime (Optional)
5. Finestone Finish Coat
*(By Others)

Design Considerations

- The design wind load shall not exceed the system's allowable wind load as stated in applicable code reports.
- Details shall conform with Finestone Wall Systems' recommendations and shall be consistent with the project requirements.
- Expansion joints are required in the system where they exist in the substrate, where the system adjoins dissimilar construction, at changes in substrates.
- System shall terminate at expansion joints.
- Sealant joints shall be detailed and installed per sealant manufacturer's recommendations.
- A minimum 6:12 slope is required on all horizontal surfaces greater than 1" (25mm).
- Backer rod and sealant are required at door and window openings.

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Finestone Stucco Wall System with MasterSeal 581 and component performance:

TEST	METHOD	CRITERIA	RESULTS
Freeze-thaw Resistance	Per ICC-ES acceptance criteria AC-11	No sign of deleterious effects after 10 cycles	BASF StuccoBase passed with no visible evidence of deterioration when examined under 5x magnification
Water Vapor Transmission	ASTM E96-Wet Cup	Report Value	BASF StuccoBase 20.4 perms, MasterSeal 581 12 perms
Compressive Strength	ASTM C109	Report Value	3245 psi (22.4 MPa) average for BASF StuccoBase
Flexural Strength	ASTM C348	Report Value	663 psi (4.57 MPa) average for BASF StuccoBase
Surface Burning	ASTM E84	Report Value	<25 Flame Spread <450 Smoke Developed Includes MasterSeal 581, StuccoBase and Finestone Finishes
Non-Combustibility	ASTM E136	No flaming, excess temperature rise or weight loss when exposed to 1382 °F (750 °C)	Pass StuccoBase
Fire Resistance Rated Assemblies	ASTM E119	No transmission of heat greater than 250 °F above ambient; no passage of flame or hot gasses; no passage of water from hose stream test; for load bearing walls – ability to withstand load under test conditions	Does not affect rating of concrete or masonry wall
Tensile bond	ASTM D4541	Report Value	Min 150 psi, StuccoBase to MasterSeal 581

Warranty Statement

BASF warrants this product to be free from manufacturing defects and to meet the technical properties on the current Product Bulletin, if used as directed within shelf life. Satisfactory results depend not only on quality products but also upon many factors beyond our control. BASF MAKES NO OTHER WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO ITS PRODUCTS. The sole and exclusive remedy of Purchaser for any claim concerning this product, including but not limited to, claims alleging breach of warranty, negligence, strict liability or otherwise, is shipment to purchaser of product equal to the amount of product that fails to meet this warranty or refund of the original purchase price of product that fails to meet this warranty, at the sole option of BASF. In the absence of an extended warranty issued by BASF, any claims concerning this product must be received in writing within one (1) year from the date of shipment and any claims not presented within that period are waived by Purchaser. BASF WILL NOT BE RESPONSIBLE FOR ANY SPECIAL, INCIDENTAL, CONSEQUENTIAL (INCLUDING LOST PROFITS) OR PUNITIVE DAMAGES OF ANY KIND. Purchaser must determine the suitability of the products for the intended use and assumes all risks and liabilities in connection therewith. This information and all further technical advice are based on BASF's present knowledge and experience. However, BASF assumes no liability for providing such information and advice including the extent to which such information and advice may relate to existing third party intellectual property rights, especially patent rights, nor shall any legal relationship be created by or arise from the provision of such information and advice. BASF reserves the right to make any changes according to technological progress or further developments. The Purchaser of the Product(s) must test the product(s) for suitability for the intended application and purpose before proceeding with a full application of the product(s). Performance of the product described herein should be verified by testing and carried out by qualified experts.