

## Sentry Stucco Wall System with Sika Thoroseal-581

Direct applied fiber-reinforced hard-coat stucco system featuring Sika Thoroseal-581.

### SYSTEM DESCRIPTION

Sentry Stucco with Sika Thoroseal-581 is a direct applied cement plaster stucco system for concrete and CMU featuring waterproof cement-based coating with cement plaster component applied to a thickness of up to 5/8".

### USES

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

### DESIGN CONSIDERATIONS

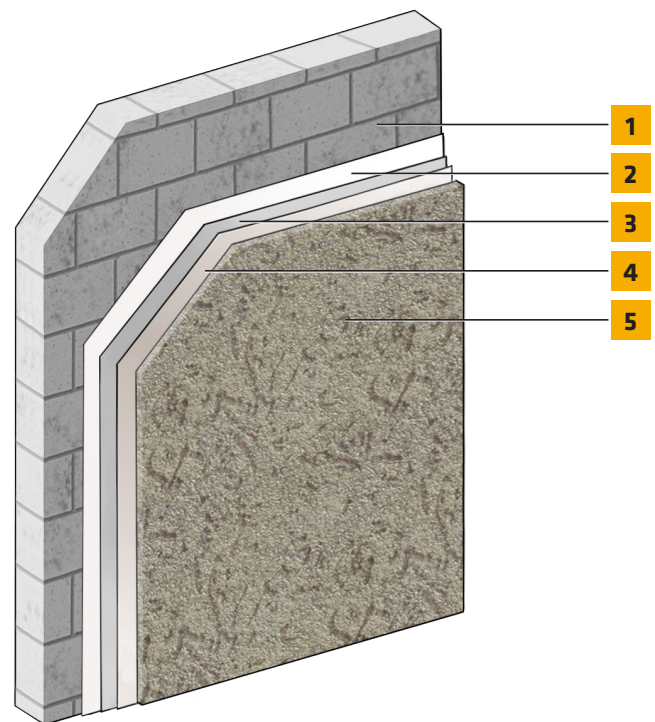
- Resistant to impact and punctures; good for high traffic areas.
- Susceptibility to efflorescence can be reduced by using SikaWall Stucco Prime.
- Additional safeguards against incidental moisture intrusion.
- Direct applied removing the need for lath and mechanical fasteners.
- Elastomeric finish coat bridges hairline cracks.
- EPS shapes integrate into the system for economical architectural detailing.
- Abrasion and dirt-resistant finishes in a wide selection of textures, standard and unlimited custom colors.
- Allow Sika Thoroseal-581 to cure for 24-48 hours; apply SikaWall Stucco Base over cured Sika Thoroseal-581 within 7-10 days.

### MATERIAL SUBSTITUTION

Material substitution will adversely affect system performance and will void all warranty coverage unless approved in writing by Sika Facades' Technical Service.

### ENHANCED CRACK RESISTANCE OPTIONS

- Good: SikaWall® Maxlastic Finish  
 Better: SikaWall® SRT Mesh with Senergy base coat or SikaWall Stucco Surface Leveler  
 Best: SikaWall® SRT Mesh with Senergy base coat or SikaWall Stucco Surface Leveler and SikaWall Maxlastic Finish



1. Acceptable Substrates:\*
2. Sika Thoroseal-581
3. SikaWall Stucco Base
4. SikaWall Stucco Prime (Optional)
5. Senergy Finish Coat

\*By Others

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System 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.	SikaWall Stucco Base passed with no visible evidence of deterioration when examined under 5x magnification.
Water Vapor Transmission	ASTM E96-Wet Cup	Report Value	SikaWall Stucco Base 20.4 perms, Sika Thoroseal - 581 - 12 perms
Compressive Strength	ASTM C109	Report Value	3245 psi (22.4 MPa) average for SikaWall Stucco Base
Flexural Strength	ASTM C348	Report Value	663 psi (4.57 MPa) average for SikaWall Stucco Base
Surface Burning	ASTM E84	Report Value	<25 Flame Spread <450 Smoke Developed Includes SikaWall Permalath 1000, Sika Thoroseal-581, SikaWall Stucco Base and Senergy Finishes
Non-Combustibility	ASTM E136	No flaming, excess temperature rise or weight loss when exposed to 1382 °F (750 °C).	Pass - SikaWall Stucco Base
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, SikaWall Stucco Base to Sika Thoroseal-581

### Design Considerations

- Use only for above-grade vertical walls. Not for use below grade or on surfaces subject to continuous or intermittent immersion in water or hydrostatic pressure. System must terminate a minimum of 4" above raw earth and 2" above paved surfaces.
- Additives are not permitted for any product unless approved in writing by Sika Facades Technical Service Team.
- All products must be installed at minimum 40 °F (4 °C) ambient and substrate temperatures unless otherwise noted on specific Product Data Sheets.
- Do not apply in ambient temperature greater than 100 °F (38 °C) or to surface temperatures above 120 °F (49 °C).
- Protect all work from precipitation for at least 24-hours after application.
- Ensure tops of walls are capped or otherwise properly protected.
- Ensure substrates are free of all form releasing agents or other residue and are clean, dry and sound without planar irregularities greater than 1/4" per 10' (6 mm per 3 m).

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## WARRANTY

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at [usa.sika.com/senergy](http://usa.sika.com/senergy) or by calling Sika Facades' Technical Service Department at 1-800-589-1336. Nothing contained in any Sika literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each Sika product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the Sika product.

Sika warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within the product's shelf life. User determines suitability of product for intended use and assumes all risks. User's and/or buyer's sole remedy shall be limited to the purchase price or replacement of this product exclusive of any labor costs. NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Sika SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. Sika SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS. Sale of Sika products are subject to the Terms and Conditions of Sale which are available at [usa.sika.com](http://usa.sika.com).