Sentry Stucco Wall System
Fiber-reinforced hard-coat stucco system
DESCRIPTION

Sentry Stucco System is a non-structural stucco wall system in which the cement plaster component is applied to a thickness of 9.5mm to 22mm (3/8" to 7/8") over a variety of approved substrates.

Integrated system components include STUCCOBASExTM/ STUCCOBASE PREMIX, optional STUCCO PRIME, and 100% acrylic polymer finish. Apply the system to PERMALATH®, PERMALATH® 1000 or ASTM C933 wire lath or ASTM C847 diamond expanded metal lath over the following acceptable sheathing: PermaBase® Cement Board and other cement boards conforming with ASTM C1177 type sheathings, including Weather Defense™ Platinum sheathing with ASTM C1325 (Type A - exterior); poured concrete/unit masonry; ASTM C79/C1396); Exposure I or exterior plywood (Grade C/D or better); or Exposure I OSB.

Required control joints can be used as design elements, and special shapes and architectural details are easy to add.

Finishes are available in a limitless color selection and offer performance enhancement options, including increased resistance to dirt pick-up, mildew and cracking.

USES

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

ADVANTAGES

- Very resistant to impact and punctures; good for high traffic areas.
- Durable.
- Additional safeguards against incidental moisture intrusion.
- Self-furred glass fiber reinforcing lath in durable plaster base that will not rust.
- Factory prepared STUCCOBASE minimizes potential site mixing errors; improves quality control.
- Fire-resistant 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; more valuable appearance.

DESIGN CONSIDERATIONS

- Maximum allowable deflection L/360, based on stud properties only.
- The design wind load shall not exceed the system’s allowable wind load as stated in applicable code reports.
- Details shall conform with BASF Wall Systems' recommendations and shall be consistent with the project requirements.

BEST PRACTICES FOR INSTALLERS

General

- It is recommended that the building should carry a minimum of 90 percent of the dead building load and that the interior gypsum should be installed prior to installation of the stucco.
- Coordination of other trades is recommended so that wall penetrations for cable, electricity, water and vents are installed with proper enclosures prior to installation of the stucco.
- Pail components must be kept at a minimum of 4°C (40°F) and at a maximum of 43°C (110°F) during shipping and storage.
- A minimum temperature of 4°C (40°F) is required during application of liquid components and until completely dried.
- Protect dry (bagged) products from moisture.
- No additives are permitted to any components unless specifically approved by BASF Wall Systems.
- Follow the application instructions for each component.
- Windows and doors may permit some water to pass through the frame materials or joints. To reduce the potential for intruding water to degrade water-sensitive sheathing and framing, and to keep water out of the stud cavity, rough openings must be properly protected and a means provided to allow intruding water to escape.

Framing/Sheathing

- Framing, plywood and OSB should have moisture content of less than 19 percent. Wet wood will shrink and deform, potentially resulting in the cracking of stucco.
- Sheathing must be securely fastened per applicable building code and manufacturer’s requirements. Sheathing must be attached with corrosion resistant fasteners.
- All substrates must be clean, dry and sound without planar irregularities greater than 6.3mm in 3m (1/4” in 10’).
- Sheathing must be protected with a secondary water-resistant barrier installed over the sheathing per applicable building code and manufacturer’s requirements.
- Sheathing and lath must be installed according to code requirements in effect.
EPS insulation (optional)
Optional EPS insulation boards should be stored flat, out of direct sunlight.

StuccoBase
- Use only clean, potable water for the mix. Plaster sand must be clean, free of impurities and comply with ASTM C897 or ASTM C144.
- STUCCOBASE must damp cure for a minimum of 48 hours. Lightly and evenly fog the wall as frequently as conditions dictate in order to keep the base damp.
- STUCCOBASE must cure a minimum of 6 days prior to the application of EPS shapes, base coat, optional reinforced base coat layer, optional primer and finish coat.

Base Coat
- Apply mesh reinforced base coat after STUCCOBASE has cured for a minimum of 6 days.
- Special shapes should be attached prior to reinforcement layer over STUCCOBASE. They must be reinforced with SENERGY BASE COAT and FLEXGUARD 4 REINFORCING MESH.
- If optional mesh reinforcement is specified, apply FLEXGUARD 4 or INTERMEDIATE 6 and SENERGY BASE COAT over the entire STUCCOBASE surface.
- Reinforcing meshes must overlap a minimum of 63.5mm (2 1/2").
- Mesh color or predominant mesh pattern should not be visible through the base coat.
- Protect from precipitation for a minimum of 24 hours.

Finish
- Use only stainless steel trowels.
- Finishes should be applied with adequate man power, tools and staging to keep a wet edge.

- Avoid working in direct sunlight.
- A primer tinted to the color of the finish is recommended prior to application of rilled finishes.
- Do not run finish into joints to receive sealant.
- Do not quit in the middle of a wall; run to natural breaks.
- Do not use different batches of finish on the same elevation.
- Protect from precipitation for a minimum of 24 hours.
- Use only sealants that are acceptable for use with this system. Acceptable sealants and backer rods or bond breakers must be installed at all transitions between this system and other wall assembly elements such as windows, doors, vents, transitions to dissimilar materials, A/C cases, and other penetrations.
- Do not apply finish over sealants.

LIMITATIONS
1. Susceptibility to efflorescence can be reduced by using STUCCO PRIME.
2. Not for use below grade.
3. Base coat thickness of this system might result in planar irregularities in finished wall appearance.
4. Do not cut aesthetic grooves into the wall surface.

KEY UPGRADES AVAILABLE:
- Mesh reinforced base coat for improved crack resistance
- STUCCO PRIME for finish color enhancement
- SENERLASTIC elastomeric finishes
- BASF Wall Systems’ Specialty finishes
- PERMALATH/PERMALATH 1000 advanced stucco lath
PRODUCT DATA—SIZES & PACKAGING

Approximate coverage rate of STUCCOBASE PREMIX is 2.2–2.4 m² (23–26 ft²) per 36.3-kg (80-pound) bag when mixed with 9.1–10.6 liters (2.4–2.8 gallons) of clean potable water and applied at 9.5 mm (3/8”) thickness.

Approximate coverage rate of STUCCOBASE is 7.4–8.4 m² (80–90 ft²) per 36.3-kg (80-pound) bag when mixed with 90.7–108.8 kg (200–240 pounds) of plaster sand and 18.9–22.7 liters (5–6 gallons) of clean potable water and applied at 9.5 mm (3/8”) thickness.

Approximate coverage rate of STUCCO PRIME is 69.6–116.1 m² (750–1,250 ft²) per 24.9-kg, 19-liter (55-pound, 5-gallon) pail.

PERMALATH® and PERMALATH® 1000 is packaged in 99 cm x 45.7 m (39” x 150’) rolls.

Approximate coverage rate for ALPHA BASE COAT to adhere EPS insulation board to substrate and to embed FLEXGUARD 4 is 11.1 m² (120 ft²) per 27.2-kg, 19-liter (60-pound, 5-gallon) pail.

FLEXGUARD 4 standard-weight Reinforcing Mesh at approximately 152 g/m² (4.5 oz/yd²) is available in 96.5 cm x 45.7 m (38” x 150’) rolls. For wall system areas not expected to receive abnormal traffic or abuse.

SENERFLEX®, SENERLASTIC, SILCOAT and SENERLASTIC PLUS Finishes are packaged in 31.7-kg, 19-liter (70-pound, 5-gallon) pails. Approximate coverages per pail for various textures are: BELGIAN LACE [14.8 m² (160 ft²)], CLASSIC [13 m² (140 ft²)], COARSE [8.3 m² (90 ft²)], FINE [13 m² (140 ft²)], SAHARA [11.1 m² (120 ft²)], TEXTURE (coverage varies depending upon application).

S Specialty Finishes are packed in 31.7-kg, 19-liter (70-pound, 5-gallon) pails. Approximate coverages per pail for various textures are: AURORA TC-100 [6.5–9.2 m² (70–100 ft²)], AURORA STONE [6.5 m² (70 ft²)], ALUMINA [8.4–9.2 m² (90–100 ft²)].

ANTICOGLAZE is packaged in 18.14 kg, 19-liter (40-pound, 5-gallon) pails and in 7.25 kg, 7.6 liter (16-pound, 2-gallon) pails. Coverage varies according to application technique. For estimation guidelines, consider using a coverage rate of 232 m² per 19L (2500 ft² per 5-gallon) pail or 93 m² per 7.6L (1000 ft² per 2-gallon) pail.

Warranty

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, or 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.