

Metallic Surfacing Systems

Pearlescent finishes and coatings, skim coats and reinforced base coats that achieve a decorative appearance over acceptable wall surfaces



DESCRIPTION

Senergy® Metallic Surfacing Systems provide economical alternatives to architectural metal panels. Applied over EIFS, Cement-Board Stucco or as an interior veneer over wallboard, the Senergy Metallic Surfacing Systems impart a distinctive, pearlescent appearance. Integrated system components include reinforced base coats treated with skim coats to minimize planar variations, tinted primers, and 100% acrylic finishes and/or coatings that give an appearance very similar to metal panels. Final appearance depends on the system selected.

The finishes and coatings are available in five standard colors and optional special colors.

USES

- The look of expensive metal panels at far lower cost; a very cost-effective upgrade over other "stucco look" finishes
- Improved final aesthetics
- Reduced energy costs when applied over Senerflex EIFS
- 100% Acrylic polymer chemistry yields long term performance with low maintenance and life-cycle costs
- Integral color retains appearance longer, saving on recoating
- All components are factory mixed and ready to use

ADVANTAGES

- Acrylic finishes with metallic appearance; replicate the look of expensive metal panels at a reduced cost.
- Integrates EPS shapes for economical detailing
- Cost-efficient - Saves time and reduces scaffolding costs
- Durable
- 100% acrylic, reinforced base coats produce air/water-resistive barrier and provide crack resistance
- 100% acrylic finish coats resist fading and abrasion

DESIGN CONSIDERATIONS

General

- Observe design considerations as noted in Overview and Specification for type of wall system being applied.
- 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".
- Backer rod, sealant and/or flashing are required at door and window openings.

BEST PRACTICES FOR INSTALLERS

General

- All flashing should be installed per codes prior to the installation of Senergy Metallic Surfacing System.
- A mock-up of the Senergy Metallic Surfacing System system showing all components should be prepared using the same tools and skills that will be used in actual construction, and the sample should be kept at the jobsite during construction.

Mixing

- Thoroughly mix the Senergy Base Coat according to instructions on its product bulletin.
- Thoroughly mix the factory-prepared SKIM COAT, TINTED PRIMER, Finish and Coating with a low speed drill and paddle mixer until thoroughly blended.
- A small amount of clean potable water may be added to adjust workability.
- Additives are not permitted.
- Close container when not in use.
- Clean tools with soap and water immediately after use.

Application

- Substrate shall be dry, clean, sound and free of releasing agents, paint or other residue or coatings. Verify substrate is flat, free of fins or planar irregularities greater than 6.4 mm in 3 m (1/4" in 10').
- Apply Senergy Base Coat and Reinforcing Mesh over the entire wall surface as per the applicable Senergy system specifications. Apply a second layer of Base Coat to the surface of the lamina, striving to achieve a flat surface, entirely eliminating the mesh pattern or mesh read through with the second coat. Allow the surface to dry completely.
- Apply a layer of SKIM COAT to the reinforced Base Coat with a clean stainless steel trowel leaving minimal trowel marks. Maintain a wet edge on the SKIM COAT by applying and leveling continually over the wall surface. Always work to achieve a flat (smooth) surface.
- Work SKIM COAT to corners, joints or other natural breaks and do not allow material to set up within an uninterrupted wall area.
- Sand the surface of the first coat of SKIM COAT by hand, using #100–#150 no-fill sandpaper (3M Tri-Mite or similar). Sanding is intended to remove imperfections in the SKIM COAT surface. Remove the dust created by sanding. Allow the surface to set until it is completely dry prior to application of optional additional coats.
- Repeat the SKIM COAT application step. The level of "sheen" expected by the customer will dictate the repeated steps necessary to achieve a surface that is smooth enough to the touch and ready for finishing with a Senergy textured finish or with METALLIC COLOR COAT. If METALLIC COLOR COAT is to be used, a smoother surface will greatly contribute to the creation of an appearance that most closely resembles the look of a metal panel. Added attention to the Base Coat, SKIM COAT and sanding will increase the level of "sheen" when finished.
- Once the surface is satisfactorily prepared and thoroughly dried, apply one coat of Senergy TINTED PRIMER in a color to closely match the selected Finish color. Allow the primer to dry completely prior to the application of the Finish or Coating.

For systems using METALLIC COLOR COAT:

Apply the first coat of Senergy METALLIC COLOR COAT to the clean and dust free surface using a 21–25 thousandths (0.021–0.025 orifice) tip and airless spray equipment. The METALLIC COLOR COAT must be applied in multiple layers of thin coats, always keeping a wet edge. Multiple coats of METALLIC COLOR COAT will be necessary. Repeat as necessary, using typical painting practices and protecting each coat from debris and precipitation while drying. Excessive film build may cause sagging or “curtains” in METALLIC COLOR COAT.

For systems using METALLIC FINISH:

Apply METALLIC FINISH to the clean and dust free surface using a clean stainless steel trowel. Apply and level METALLIC FINISH during the same operation to minimum obtainable thickness consistent with uniform coverage. Maintain a wet edge on METALLIC FINISH by applying and texturing continually over the wall surface. Work METALLIC FINISH to corners, joints or other natural breaks and do not allow material to set up within an uninterrupted area. Protect from debris and precipitation while drying.

For systems using FINE Finish Coated with METALLIC COLOR COAT:

Apply FINE FINISH to the clean and dust free surface using a clean stainless steel trowel. Apply and level Finish during the same operation to a minimum obtainable thickness consistent with uniform coverage. Maintain a wet edge on Finish by applying and texturing continually over the wall surface. Work Finish to corners, joints or other natural breaks and do not allow material to set up within an uninterrupted area. Protect from debris and precipitation while drying. Apply the first coat of METALLIC COLOR COAT to the dry FINE FINISH using a 21–25 thousandths (0.021–0.025 orifice) tip and airless spray equipment. The METALLIC COLOR COAT must be applied in multiple layers of thin coats, always keeping a wet edge. Multiple coats of METALLIC COLOR COAT will be necessary. Repeat as necessary, using typical painting practices and protecting each coat from debris and precipitation while drying. Excessive film build may cause sagging or “curtains” in METALLIC COLOR COAT.

System Specifications

To perform in the expected manner, the System must be applied according to Senergy specifications, using only the listed and approved materials and components.

Components

A Senergy Metallic Surfacing System is comprised of Senergy Base Coat applied over approved surfaces, Senergy Reinforcing Mesh, Senergy SKIM COAT, Senergy TINTED PRIMER and either Senergy METALLIC COLOR COAT, Senergy METALLIC FINISH or Senergy FINE FINISH and Senergy METALLIC COLOR COAT.

EPS special shapes:

Used to enhance design aesthetics such as moldings, cornices, quoins, ogees, etc., these can be integrated into the system. They must be reinforced with Base Coat and Reinforcing Mesh prior to the application of SKIM COAT, TINTED PRIMER, Finishes and/or Coatings.

Limitations

- Do not use SKIM COAT as the Base Coat for Reinforcing Mesh. ALPHA BASE COAT is the recommended Base Coat used for embedding Reinforcing Mesh in these applications.
- SKIM COAT is not recommended for use over cement plaster due to the shrinkage and natural irregularities that occur during the curing of the cement plaster.
- After a field trial, it might be necessary to select a slightly different grit and type of sandpaper.
- Protect all Senergy products during transportation and installation to avoid physical damage.
- Do not apply Senergy materials in ambient temperatures below 4°C (40°F). Provide supplementary heat during installation and drying period at least 24 hours after installation and until dry.
- Do not apply Senergy materials to frozen surfaces.

PRODUCT DATA—SIZES & PACKAGING

Approximate coverage rate for ALPHA BASE COAT to embed FLEXGUARD 4 is 26 m² (280 ft²) per 27.2-kg, 19-liter (60-pound, 5-gallon) pail.

FLEXGUARD 4, standard-weight Reinforcing Mesh at approximately 4.5 oz/yd² is available in 96.5 cm x 45.7 m (38" x 150") rolls.

Approximate coverage rate for SKIM COAT is 23.2 m² (250 ft²) per 31.7 kg, 19-liter (70-pound, 5-gallon) pail, depending upon the number of layers required or desired.

Approximate coverage rate for Senergy TINTED PRIMER is 69.6–116.1 m² (750–1,250 ft²) per 24.9-kg, 19-liter (55-pounds, 5-gallon) pail.

Approximate coverage rate for METALLIC COLOR COAT is 93 m² (1000 ft²) for the first coat, 111 m² (1200 ft²) for the second coat, and 130 m² (1400 ft²) for the 3rd coat and any additional required coats. Packaged in 24.9 kg, 19-liter (55-pound, 5-gallon) pails.

Approximate coverage rate for FINE FINISH or METALLIC FINE FINISH is 14.8 m² (160 ft²) per 31.7 kg, 19-liter (70-pound, 5-gallon) pail.

TECHNICAL SUPPORT

For further details, specifications, questions, specific recommendations, or the most recent product information, please consult our Technical Services Department: Toll-free 800-221-9255 or our website, www.senergy.basf.com.

WARRANTY

Ten year limited warranty. Extended warranties are available, please consult the BASF Wall Systems Technical Services for requirements.

HEALTH & SAFETY

Follow good safety and industrial hygiene practices during handling and installing products and systems. Take necessary precautions and wear the appropriate personal protective equipment as needed. Read material safety data sheets and related literature on products before specification and/or installation.

Note

BASF Wall Systems is an operating unit of BASF Construction Chemicals, LLC. (herein after referred to as "BASF Wall Systems")

Residential Policy

Apply wall systems in accordance with local building codes in force at the time of construction. On one and two-family residential framed construction, BASF Wall Systems requires that the wall system selected be one that includes provisions for moisture drainage. Please view the Senergy Residential Policy Bulletin on the Senergy website for a more detailed discussion of this topic.

Disclaimer

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