Finestone Surfacing Systems for Insulating Concrete Forms

Weather resistant surfacing system using a mesh-reinforced base coat and 100% acrylic polymer exterior finish

System Overview
**Finestone Surfacing Systems for ICFs**

**DESCRIPTION**
Finestone Surfacing Systems for ICFs provide the desirable stucco look and aesthetic appeal over a variety of expanded polystyrene and Neopor GPS Plus Rigid Insulation Board forms. The Finestone Surfacing Systems are comprised of a reinforced base coat, optional primer and a 100% acrylic polymer finish. Depending upon the construction and composition of the form, the Finestone Surfacing Systems might include additional expanded polystyrene insulation boards and an adhesive.

Finestone architectural coatings and finishes have passed rigorous tests for resistance against abrasion, fading, chalking, cracking and peeling. Finishes are available in a limitless color election and offer performance enhancement options including increased resistance to dirt pick-up and mildew. Finestone Surfacing Systems feature exceptional durability and low maintenance.

**USES**
For exterior walls in residential, light commercial and institutional ICF construction when a weather resistant, low maintenance “Stucco Look” wall finish is desired.

**ADVANTAGES**
- Insulation and thermal mass of ICFs reduce energy cost
- Allows downsizing of HVAC systems
- Economical architectural detailing
- Does not require control joints
- Fade-, crack-, abrasion- and dirt-resistant finishes
- Multiple options for impact resistance improve functional design, ease of maintenance
- Wide selection of finish textures, standard and custom colors

**DESIGN CONSIDERATIONS**

**General**
- Consult the ICF manufacturer for design and application considerations.
- Density of the forms shall not exceed two pounds per cubic foot.
- Surfacing Systems shall not serve as the foundation damp-proofing.
- Use high impact mesh for ground floor applications in high traffic areas.
- EPS special shapes such as moldings, cornices, quoins, ogees, etc. can be used to enhance design aesthetics. These can be integrated into the Surfacing System. They must be reinforced with Finestone Base Coat and Reinforcing Mesh.
- Mesh color or prominent mesh pattern should never be visible through the base coat.
- Install “butterflies” of Reinforcing Mesh at corners of all windows, doors and other penetrations.
- Install a second layer of Reinforcing Mesh a minimum of 102 mm (4”) minimum. Do not align reveals with insulation board joints; offset 102 mm - 152 mm (4–6”) minimum. Do not break Reinforcing Mesh in reveals; offset 102 mm – 152 mm (4–6”) minimum. Do not break Reinforcing Mesh in reveals; offset 102 mm – 152 mm (4–6”) minimum.
- Prior to installation of the base coat, entire wall must be completely rasped and planar with the surface of the form.
- To avoid waste or insufficient adhesion, use the proper sized notched trowel to apply adhesive to back of insulation boards.
- Pail components must be kept at a minimum of 4°C (40°F) during shipping and storage. A minimum temperature of 4°C (40°F) is required during application of all components and until completely dried.
- Protect dry (bagged) products from moisture. EPS insulation boards should be stored flat, out of direct sunlight.
- EPS board size is limited to 610 mm x 1220 mm (2’ x 4’). The thickness of the board must be 19 mm to 102 mm 3/4” to 4”.
- Prior to application of the Surfacing Systems, do not remove high and low spots and to remove dust from the surface of the EPS.
- EPS SHAPES AND REVEALS:
  - EPS board size is limited to 610 mm x 1220 mm (2’ x 4’). The thickness of the board must be 19 mm to 102 mm 3/4” to 4”.
  - Do not break Reinforcing Mesh in reveals; offset 102 mm - 152 mm (4–6”) minimum. Do not align reveals with insulation board joints; offset 102 mm - 152 mm (4–6”) minimum.
  - To avoid waste or insufficient adhesion, use the proper sized notched trowel to apply adhesive to back of insulation boards.

**Best Practices for Installers**

**General**
- Do not run Surfacing Systems below grade; Surfacing Systems must terminate properly above grade.
- Repair any dings, dents and damaged form areas with the appropriate expanded insulation prior to the application of the Surfacing Systems. Do not fill damaged areas with base coat or cementitious products.
- Do not apply the Surfacing Systems directly to dimensional framing lumber/ blocking which might occur at window and door bucks, etc.
- Install the Surfacing Systems after the concrete has been cured for a minimum of seven (7) days.
- Follow the application instructions for each component.
- All substrates must be clean, dry and sound without planar irregularities greater than 6.4 mm in 3 m (1/4” in 10’).
- Form ties, furring strips, or other materials external of the form shall be flush and planar with the surface of the form.
- Insulation Boards
  - EPS board size is limited to 610 mm x 1220 mm (2’ x 4’). The thickness of the board must be 19 mm to 102 mm 3/4” to 4”.
  - Do not break Reinforcing Mesh in reveals; offset 102 mm - 152 mm (4–6”) minimum. Do not align reveals with insulation board joints; offset 102 mm - 152 mm (4–6”) minimum.
  - To avoid waste or insufficient adhesion, use the proper sized notched trowel to apply adhesive to back of insulation boards.
- Reinforced Base Coat
  - STANDARD MESH/INTERMEDIATE 6/INTERMEDIATE 12 mesh must overlap a minimum of 64 mm (2 1/2”).
  - Use STRONG 15/HI-IMPACT 20 at ground floor and on other locations where high traffic is expected. STRONG 15/HI-IMPACT 20 must not overlap; butt edges together. After STRONG 15/HI-IMPACT 20 are embedded in base coat, that layer must be covered by a second layer of STANDARD MESH and base coat.
  - Install “butterflies” of Reinforcing Mesh at corners of all windows, doors and other penetrations.
  - Install a second layer of Reinforcing Mesh a minimum of 102 mm (4”) on both sides of inside and outside corners.
  - Mesh color or prominent mesh pattern should never be visible through the base coat.
  - Special shapes must also be reinforced with base coat and Reinforcing Mesh.
- Textured Acrylic Surfacing Systems are not designed for horizontal applications. Always maintain a minimum slope of 1:2 up to a maximum width of 305 m (12”).
- Protect work from precipitation for a minimum of 24 hours.

**Finish**
• Use only stainless steel trowels.
• Avoid working in direct sunlight.
• Finishes should be applied with adequate man power, tools and staging to keep a wet edge.
• A primer tinted to the color of the finish is recommended prior to application of rilled finishes.
• Do not run finish into joints that 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.

KEY UPGRADES AVAILABLE
System upgrades can include the addition of high-impact resistant reinforcing mesh, specialty finishes, silicone enhanced textured finishes to improve dirt pick up and mildew resistance, and tinted primers to enhance final aesthetics.

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.finestone.basf.com.

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.

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, 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.
Finestone Surfacing Systems for ICFs