

Senergy Reinforcing Mesh

PRODUCT BULLETIN
1017606

USES

1. For use with all Senerflex® Wall Systems and Senturion® Wall Systems and Senergy Cement-Board Stucco™ Systems and for EPS shapes on Senergy Stucco Wall System that use either EPS or polyisocyanurate insulation boards and for use over EPS shapes on all Senergy Wall Systems.
2. For above ground use with all Senergy Surfacing Systems.
3. Senergy SELF-ADHERING MESH TAPE only: reinforces SENERSHIELD™ over acceptable sheathing joints and reinforces SENERSHIELD over rough openings and at terminations.
4. FIBERLATH MESH only: reinforces and provide a keying device for base coat on Senerthik Class PM EIFS.
5. 4", 9" SHEATHING FABRIC only: reinforces SENERSHIELD-R over acceptable sheathing joints and reinforces SENERSHIELD-R over rough openings and terminations.

TECHNICAL INFORMATION

Consult the Degussa Wall Systems Technical Services Department for specific recommendations concerning all other applications. Consult the Senergy website, www.senergy.cc, for additional information about products and systems and for updated literature.

APPLICATION

CORNER MESH:

Install CORNER MESH at exterior corners. Apply mixed Base Coat to insulation board at outside corners. Immediately embed the CORNER MESH into the Base Coat by troweling from the corner, butt edges and avoid wrinkles. After Base Coat is dry and hard, apply a layer of FLEXGUARD 4, INTERMEDIATE 6 or 12 Reinforcing Mesh over the entire surface of the CORNER MESH.

FLEXGUARD 4, INTERMEDIATE 6 and 12 Reinforcing Meshes:

Fully embed clean mesh into wet base coat and smooth with a trowel so as to achieve mesh embedment with no mesh color visible. Double layers of FLEXGUARD 4 and INTERMEDIATE 6 mesh must be applied at all inside and outside corners. Window corners also require secondary reinforcement as per details. Lap Reinforcing Mesh 64 mm (2 1/2") minimum at edges.

STRONG 15 and HI-IMPACT 20 Reinforcing Meshes:

Embed STRONG 15 or HI-IMPACT 20 Reinforcing Mesh in wet base coat by troweling from the center to the edges. Butt STRONG 15 or HI-IMPACT 20 Reinforcing Mesh at all adjoining edges, do not use to backwrap or bend around corners. Butt STRONG 15 or HI-IMPACT 20 Reinforcing Mesh at adjoining edges of CORNER MESH. Ensure Reinforcing Mesh is free of wrinkles and embedded in Base Coat so that no Reinforcing Mesh color is visible. After Base Coat with embedded Reinforcing Mesh is dry and hard (normally 8 to 10 hours), apply a layer of FLEXGUARD 4 or INTERMEDIATE 6 Reinforcing Mesh over the entire surface to achieve total nominal Base Coat/Reinforcing Mesh thickness of 2.4 mm (3/32").

DESCRIPTION

Balanced, open-weave glass, fiber reinforcing mesh, twisted multi-end strands treated for compatibility with Senergy Base Coats. A variety of Reinforcing Mesh types are available to meet the different requirements of impact resistance at specific wall locations. Senergy Reinforcing Mesh conforms to MIL-Y-1140G. Senergy SELF-ADHERING MESH TAPE, in addition to having the same properties as described above, is coated with a pressure sensitive adhesive.

COLOR

Senergy meshes are white, except 4" and 9" SHEATHING FABRIC which are gray.

Features	Benefits
Alkali resistance, compatibility with all Senergy Base Coats	Maintains tensile strength and flexibility for long-term durability
Senergy SELF-ADHERING MESH TAPE	Simplifies and speeds application of SENERSHIELD Air/Weather Barrier

Senergy® Reinforcing Mesh

SELF-ADHERING MESH TAPE:

Substrate shall be acceptable to Degussa Wall Systems, Inc. Substrate shall be dry, clean, sound and free of release agents, paint or other contaminants. Verify that the substrate is flat, free of fins or anything that would hinder adhesion of the mesh. Unsatisfactory conditions shall be reported to the general contractor and corrected before application of the Senergy Wall System. Senergy SELF-ADHERING MESH TAPE may be applied direct from the roll. Center the mesh over the area to be reinforced. Firmly press the mesh onto the surface while unrolling. Avoid creating wrinkles and fish-mouths. If they occur cut out the area with a utility knife and re-apply. Overlap Senergy SELF-ADHERING MESH TAPE a minimum of 65 mm (2 1/2"). Cover SELF-ADHERING MESH TAPE with a layer of SENERSHIELD.

4", 9" SHEATHING FABRIC:

Apply mixed SENERSHIELD-R at all sheathing, joints, terminations, inside and outside corners and rough openings. Immediately place and center 4" or 9" SHEATHING FABRIC over wet SENERSHIELD-R outside corners and rough openings. Ensure fabric extends evenly on both sides of the sheathing joint. Lap mesh 63.5 mm (2 1/2") minimum at intersections. Allow to dry to the touch, before applying SENERSHIELD-R to entire wall surface.

LIMITATIONS

1. Protect Senergy Reinforcing Mesh during transportation and installation to avoid physical damage.
2. Store Senergy Reinforcing Mesh in a cool, dry place protected from exposure to moisture.
3. See Senergy Specifications and Details for complete information on installation of Senergy Wall Systems.
4. Apply in temperatures of 4°C (40°F) and higher.

TECHNICAL DATA

ASTM E 695 impact resistance:

No cracks in the exterior insulation and finish system from a drop height of 1.83 m (6'). Maximum indentation did not exceed 8.5 mm (0.33").

EIMA impact standard 101.86:

FLEXGUARD 4/Standard Base Coat	Standard Impact Resistance	[2.8–5.6 J (25–49 inch-lbs)]
INTERMEDIATE 6/Standard Base Coat	Standard Impact Resistance	[2.8–5.6 J (25–49 inch-lbs)]
INTERMEDIATE 12/Standard Base Coat	Medium Impact Resistance	[5.7–10.1 J (50–89 inch-lbs)]
INTERMEDIATE 12 & FLEXGUARD 4/Standard Base Coat	High Impact Resistance	[10.2–17.0 J (90–150 inch-lbs)]
STRONG 15 & FLEXGUARD 4/Standard Base Coat	Ultra High Impact Resistance	[over 17.0 J (150 inch-lbs)]
HI-IMPACT 20 & FLEXGUARD 4/Standard Base Coat	Ultra High Impact Resistance	[over 17.0 J (150 inch-lbs)]

Dade county protocol 201 impact tests (large and small missile):

Passed with various wall assemblies. See Technical Bulletin 1017674 EIFS and Coatings Tests Results for details.

FLEXGUARD 4 Reinforcing Mesh:

A single-layer application of FLEXGUARD 4 provides reinforcement for wall system areas not expected to receive abnormal abuse or traffic.

Weave: Leno

Weight: 113 g/m² (4 oz/yd²) +/- 5%

Fabric Count: 6 x 5

Packaging: 96.5 cm x 45.7 m (38" x 150') roll
9" Starter rolls: 24.1 cm x 45.7 m (9" x 150')
122 cm (48" width)
183 cm (72" width)
1244 cm (96" width)

INTERMEDIATE 6 Reinforcing Mesh:

A single-layer application of INTERMEDIATE 6 provides reinforcement for wall system areas not expected to receive abnormal abuse or traffic.

Weave: Leno

Weight: 202 g/m² (5.6 oz/yd²) +/- 5%

Fabric Count: 6 x 5

Packaging: 96.5 cm x 45.7 m (38" x 150') roll

INTERMEDIATE 12 Reinforcing Mesh:

A versatile, intermediate weight mesh. While capable of being used for a complete single-layer application, INTERMEDIATE 12 is often used in conjunction with FLEXGUARD 4 or INTERMEDIATE 6 to offer added impact resistance at specific areas (i.e. around doors or walkways).

Weave: Leno

Weight: 373 g/m² (11 oz/yd²) +/- 5%

Fabric Count: 16 x 12

Packaging: 96.5 cm x 22.8 m (38" x 75') roll

STRONG 15 Reinforcing Mesh:

A medium/heavy-weight mesh intended for areas expected to receive traffic and abuse. STRONG 15 has special installation procedures including:

1. Edges are butted (not overlapped).
2. STRONG 15 cannot be used for backwrapping and will not bend around corners.
3. An application of STRONG 15 requires a continuous and lapped FLEXGUARD 4 or INTERMEDIATE 6 application as an overlay.

Weave: Hurl Leno

Weight: 508 g/m² (15 oz/yd²) + 5%

Fabric Count: 4 x 4

Packaging: 96.5 cm x 22.8 m (38" x 75') roll

HI-IMPACT 20 Reinforcing Mesh:

A heavy-weight mesh intended for areas expected to receive a high degree of traffic and abuse. HI-IMPACT 20 has special installation procedures including:

1. Edges are butted (not overlapped).
2. HI-IMPACT 20 cannot be used for backwrapping and will not bend around corners.
3. An application of HI-IMPACT 20 requires a continuous and lapped FLEXGUARD 4 or INTERMEDIATE 6 application as an overlay.

Weave: Hurl Leno

Weight: 675 g/m² (20.0 oz/yd²) +/- 5%

Fabric Count: 4 x 3

Packaging: 99.0 cm x 22.8 m (39" x 75') roll

CORNER MESH:

An intermediate-weight mesh for use at exterior corners when added impact resistance or clean, crisp corners are desired. CORNER MESH is pre-marked for easy bending. An overlay of FLEXGUARD 4, INTERMEDIATE 6 or 12 is required when CORNER MESH is used.

Weave: Plain or Hurl

Weight: 304 g/m² (9.0 oz/yd²) +/- 5%

Fabric Count: 12 x 4

Packaging: 22.9 cm x 45.7 m (9" x 150') roll

SELF-ADHERING REINFORCING MESH TAPE:

A standard weight mesh coated with a pressure sensitive adhesive and used with SENERSHIELD air/ moisture barrier as reinforcement over acceptable sheathing joints, rough openings and at terminations.

Weave: Leno

Weight: 169 g/m² (5 oz/yd²) +/- 10%

Packaging: 4" Rolls: 10.2 cm x 45.7 m (4" x 150')

9" Rolls: 22.9 cm x 45.7 m (9" x 150')

4", 9" SHEATHING FABRIC:

4", 9" SHEATHING FABRIC is used with SENERSHIELD-R air/moisture barrier as reinforcement over acceptable sheathing joints, rough openings and at terminations.

Packaging: 4" SHEATHING FABRIC: 10.2 cm x 54.8 m (4" x 180 ft) roll

9" SHEATHING FABRIC: 22.9 cm x 54.8 m (9" x 180 ft) roll

RESIDENTIAL POLICY

On one and two-family residential framed construction, Degussa Wall Systems, Inc. requires that the wall system selected be one that includes provisions for moisture drainage. The choices include Senturion® line of water managed EIFS, commercial Senerflex® Wall Systems integrating moisture management features, Senergy Stucco Wall System, and Senergy Cement-Board Stucco™ Systems. Senergy Exterior Surfacing Systems for insulating concrete forms are also acceptable. There are no exceptions to this policy. Under no circumstances will Degussa Wall Systems, Inc. warrant the use of any other system on this type of construction without expressed written authorization from Degussa Wall Systems, Inc. [Residential construction using EIFS on masonry (CMU) or poured concrete does not require the additional water management provisions described above.]

See the *Senergy Residential Policy Bulletin* for a more detailed discussion of this topic. Consult Degussa Wall Systems Technical Services Department for specific recommendations concerning all other applications. Consult the Senergy web-site, www.senergy.cc for additional information about products and systems and for updated literature.

DISCLAIMER

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