Method Statement

Senerflex® Secondary Weather Barrier

Class PB EIFS providing a secondary air/moisture barrier

1. EXAMINATION:

1.1. Substrates

a) Trowel applied air/weather barrier acceptable substrates: cement board (or other ASTM C1325 Type A Exterior approved cement boards), sheathing (ASTM C1177); gypsum sheathing (ASTM C79/C1396); poured concrete and unit masonry. Roller applied air/weather barrier acceptable substrates: cement board (or other ASTM C1325 Type A Exterior approved cement boards), gypsum sheathing, Exposure I or exterior plywood sheathing (Grade C-D or better), Exposure I OSB

b) Wall sheathings must be securely fastened per applicable building code requirements.

c) Maximum deflection not to exceed L/240 of span under positive or negative design loads unless otherwise approved in writing by Master Builders Solutions Wall Systems before installation.

d) Examine surfaces to receive **Senerflex Secondary Weather Barrier** Wall System and verify that substrate and adjacent materials are 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 6mm in 3m.

1.2. Flashings

a) Openings must be flashed with a minimum 230mm wide strip of Secondary Moisture Barrier **(Masterseal AWB 661HP** or **MasterSeal AWB 661I** embedded reinforce with sheathing fabric) prior to window/ door, HVAC, etc. installation.

b) Windows and openings shall be flashed according to design and Building Code Requirements.

c) Individual windows that are ganged to make multiple units require continuous head flashing and/or the joints between the units must be fully sealed.

1.3. Utilities

The system must be properly terminated (backwrapped 50mm, sealed, flashed) at all penetrations, lighting fixtures, electrical outlets, hose bibs, dryer vents, etc.

1.4. Primer

Verify that Primer is installed over the substrate as per applicable manufacturer's specification prior to application of **Senerflex Secondary Weather Barrier.**

1.5. Roof

a) Verify that all roof flashings have been installed in accordance with the guidelines set by the system manufacturer.

b) Kick-out flashing must be installed leak-proof and angled (min 100º) to allow for proper drainage and water diversion.

1.6. **Air Seals**

Air Seals Install between the primary air/weather barrier and other wall components (penetrations, etc.) in order to maintain continuity of the air barrier system.

1.7. **General**

Unsatisfactory conditions shall be reported to the general contractor and/or builder and/or architect and/or owner. Do not proceed until all unsatisfactory conditions have been corrected.

2. PREPARATION:

2.1. Protect all surrounding areas and surfaces from damage and staining during application of **Senerflex Secondary Weather System.**

2.2. Protect finished work at end of each day to prevent water penetration.

2.3. Substrate preparation: Prepare substrates in accordance with Senergy instructions.

3. MIXING:

General: No additives are permitted unless specified in product mixing instructions. Close containers when not in use. Prepare in a container that is clean and free of foreign substances. Do not use a container which has contained or been cleaned with a petroleum-based product. Clean tools with soap and water immediately after use.

3.1. **Air/Weather Barrier**

3.1.1 Substrate Primer – **MasterSeal AWB 661FL**

a) **MasterSeal AWB 661FL** does not require mixing.

3.1.2 Weather Barrier - **MasterSeal AWB 661HP** or **MasterSeal AWB 661I**

a) Use directly from original packaging or poured into a new container that is clean and free of foreign substances.

b) It should be thoroughly stirred with a clean, rust-free drill and paddle until homogeneous.

c) Never dilute **MasterSeal AWB 661HP** or **MasterSeal AWB 661I.**

3.2. **Senergy Adhesive - Alpha Dry Adhesive**

a) Mix and prepare each bag in a 19 litre unit.

b) Fill the container with approximately 5.25-5.75 litres of clean, potable water.

c) Add Alpha Dry Adhesive in small increments, mixing after each additional increment.

d) Mix Alpha Dry Adhesive and water with a clean, rust-free paddle until thoroughly blended.

e) Additional Alpha Dry Adhesive or water may be added to adjust workability.

3.3. Senergy Base Coat - Alpha Dry Base Coat

a) Mix and prepare each bag in a 19 litre unit.

b) Fill the container with approximately 5.6 litres of clean, potable water.

c) Add Alpha Dry Base Coat in small increments, mixing after each additional increment.

d) Mix Alpha Dry Base Coat and water with a clean, rust-free paddle until thoroughly blended.

e) Additional Alpha Dry Base Coat or water may be added to adjust workability.

3.4. Senergy Tinted Primer and Finish Coats

a) Thoroughly mix the factory-prepared material with a clean, rust-free paddle until thoroughly blended.

b) A small amount of clean, potable water may be added to adjust workability.

c) Additives are not permitted.

d) Close container when not in use.

e) Clean tools with soap and water immediately after use.

4. APPLICATION:

General: Apply **Senerflex Secondary Weather Barrier** materials in accordance with **Senerflex Secondary Weather Barrier Specification.**

4.1. Accessories

Attach Starter Track level

a) Create a straight level datum line below the wall surface, measure from the ground level and offset to the wall at approximately 200mm.

b) Place and level the bottom of starter track in the datum line and mark point the wall surface with marking pen using the guide hole of starter track.

c) Drill a hole on mark point at wall surface and mechanically fix the starter track by using the Hilti flat head impact anchor with screw.

4.2. Air/Weather Barrier

a) Substrate shall be of a type approved by Senergy.

b) 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 6mm in 3m.

c) Unsatisfactory conditions shall be reported to the General Contractor and corrected before application of the **Senerflex Secondary Weather Barrier Design.**

d) Apply **MasterSeal AWB 661FL** filling and smoothing compound on porous concrete and concrete blocks.

e) Apply **MasterSeal AWB 661HP** or **MasterSeal AWB 661I** air/weather barrier. All sheathing joints and windows/openings must be protected.

f) Back wrap Flexguard 4 Reinforcing Mesh at all terminations including the base of the system. Leave sufficient to wrap a minimum 100mm on to the face of the Insulation Board.

4.3. Approved EPS Insulation Board or Rock Wool

a) Vertical surfaces: Begin at base from firm, permanent, or temporary support.

b) Apply horizontally in a running bond pattern.

c) Pre-cut EPS insulation board or rock wool to fit openings and projections. EPS insulation board or rock wool must be a single piece around corners of openings. Stagger vertical joints and corners. Stagger insulation and sheathing board joints.

d) EPS Insulation Board - Notched Trowel Method: poured concrete/unit masonry substrates. Apply mixed Alpha Dry Adhesive to entire surface of insulation board using a stainless-steel trowel with 13mm x 13mm notches spaced 13mm apart, or 10mm x 10mm notches spaced 10mm apart at a rate approximately 3.5 kg per m^2.

- OR -

e) EPS Insulation Board - Ribbon and Dab Method: poured concrete/unit masonry substrates. Apply a ribbon of Alpha Dry Adhesive approximately 50mm wide by 10mm thick to entire perimeter of each board with a stainless-steel trowel. Apply dabs or ribbons of 10mm thickness and 100mm in diameter, approximately 200mm on centre to interior area of board at a rate approximately 3.1 kg per m^2.

Note: Ribbon & dab method is not recommended on gypsum or wood-based sheathing substrates.

f) Rock Wool – Back Buttering and Notched Trowel Method: poured concrete/unit masonry substrates. Apply mixed Alpha Dry Adhesive to entire surface of rock wool using a stainless-steel trowel with 1mm thickness buttering back and 10mm x 10mm notches spaced 10mm apart at a rate approximately 8.5 kg per $m^{2.}$

g) Immediately set EPS insulation board or rock wool into place and apply pressure over entire surface of EPS insulation board or rock wool to ensure positive uniform contact and high initial grab. Do not slide EPS insulation board or rock wool into place. Do not allow Alpha Dry Adhesive to dry prior to installing.

h) Abut all joints tightly and ensure overall flush level surface.

i) Check adhesion periodically by removing a EPS insulation board or rock wool prior to set. Properly installed EPS insulation board or rock wool will be difficult to remove, and Senergy Adhesive will be adhered to both the **MasterSeal AWB 661HP/MasterSeal AWB 661I** and the EPS insulation board or rock wool.

j) Fill gaps between EPS insulation boards or rock wool with slivers of EPS insulation board or rock wool.

k) Allow application of EPS insulation board or rock wool to dry (normally 8 to 10 hours) prior to application of Base Coat/ Reinforcing Mesh.

l) EPS Insulation Board - Rasp flush any irregularities of the insulation board greater than 2mm.

m) Rock Wool – Flush any irregularities of the rock wool greater than 2mm by cutting with a sharp knife.

n) Install expansion joints and other joints as indicated on drawings. Do not align aesthetic grooves with EPS insulation board or rock wool joints.

4.4. Senergy Base Coat/Reinforcing Mesh

Base Coat shall be applied so as to achieve Reinforcing Mesh embedment with no Reinforcing Mesh colour visible.

4.5. **Senergy Corner Mesh**

a) Install Corner Mesh at exterior corners.

b) Apply Corner Mesh prior to application of Reinforcing Mesh.

c) Cut Corner Mesh to workable lengths.

d) Apply mixed Alpha Dry Base Coat to insulation board at outside corners using a stainless-steel trowel.

e) Immediately place Corner Mesh against the wet Base Coat and embed the Corner Mesh into the Base Coat by troweling from the corner; butt edges and avoid wrinkles.

f) After Base Coat is dry and hard, apply a layer of alpha dry base coat and immediate place Flexguard 4 Reinforcing Mesh against wet Base Coat and embed the Reinforcing Mesh into the Base Coat by troweling from the center to the edge over the entire surface to achieve total nominal Base Coat/Reinforcing Mesh thickness of 2.4mm.

4.6. **Standard Impact Areas: Installation of Flexguard 4 Reinforcing Mesh**

a) Apply mixed Alpha Dry Base coat to entire surface of insulation board with a stainless-steel trowel to embed the Reinforcing mesh.

b) Immediately place Flexguard 4 Reinforcing Mesh against wet Base Coat and embed the Reinforcing Mesh into the Base Coat by troweling from the center to the edges.

c) Lap Reinforcing Mesh 65mm minimum at edges.

d) Ensure Reinforcing Mesh is continuous at corners, void of wrinkles and embedded in Base Coat so that no Reinforcing Mesh colour is visible.

e) If required, apply a second layer of Base Coat to achieve total nominal Base Coat/Reinforcing Mesh thickness of 2mm.

f) Allow Base Coat with embedded Reinforcing Mesh to dry hard (normally 8 to 10 hours).

4.7. **High Impact Areas: Installation of Intermediate 12 & Flexguard 4 Reinforcing Mesh:**

a) Apply mixed Alpha Dry Base Coat to entire surface of insulation board with a stainless-steel trowel to embed the Reinforcing Mesh.

b) Immediately place Intermediate 12 Reinforcing Mesh against wet Base Coat and embed the Reinforcing Mesh into the Base coat by troweling from the center to the edges.

c) Butt Intermediate 12 Reinforcing Mesh at all adjoining edges; do not use to backwrap or bend around corners.

d) Butt Intermediate 12 Reinforcing Mesh at adjoining edges of Corner Mesh.

e) Ensure Reinforcing Mesh is free of wrinkles and embedded in Base Coat so that no Reinforcing Mesh colour is visible.

f) After Base Coat with embedded Reinforcing Mesh is dry and hard (normally 8 to 10 hours), apply a layer of alpha dry base coat and immediate place Flexguard 4 Reinforcing Mesh against wet Base Coat and embed the Reinforcing Mesh into the Base Coat by troweling from the center to the edge over the entire surface to achieve total nominal Base Coat/Reinforcing Mesh thickness of 2.4mm.

4.8. **Senergy Tinted Primer**

a) Apply Tinted Primer to the Base Coat/Reinforcing Mesh with a sprayer, 10mm nap roller, or good- quality latex paint brush at a rate of approximately 3.6–6.1 m² per litre.

b) Tinted Primer shall be dry to the touch before proceeding to the Senergy Finish Coat application.

4.9. **Senergy Finish Coat**

a) Senerflex® Finish: [Classic] [Fine] [Texture] [Coarse] [Sahara] [Belgian Lace].

b) Apply Finish directly to the dry Tinted Primer or Senergy Base Coat/Reinforcing Mesh with a clean, stainless steel trowel at a rate approximately as below mentioned.

b.1. Classic finish - 2.5 kg per m^2

b.2. Fine finish - 2.2 kg per m^2

b.3. Texture finish varies depending upon texture

b.4. Coarse finish - 3.9 kg per m^2

b.5. Sahara finish - 2.9 kg per m^2

b.6. Belgian Lace - 2.2 kg per m^2

Note:

Note: In order to minimize the possibility of Alpha Dry Base Coat read-through in Senergy Finish, we recommend the use of Tinted Primer. A colour sample must be approved prior to product shipment. Also, slight colour or texture variations may occur.

c) Apply and level Finish during the same operation to minimum obtainable thickness consistent with uniform coverage.

d) Maintain a wet edge on Finish by applying and texturing continually over the wall surface.

e) Work Finish to corners, joints or other natural breaks and do not allow material to set up within an uninterrupted wall area.

f) Float Finish to achieve final texture.

5. CLEANING:

5.1 Clean work.

5.2 Clean adjacent surfaces and remove excess material, droppings, and debris.

6. PROTECTION:

6.1 Protect finished work

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