

# MasterSeal® AWB 661I

Air and Water-Resistive Barrier Membrane - meeting Class A requirements of ASTM E84 Surface Burning test

#### DESCRIPTION

MasterSeal AWB 661I is a one-component liquid applied air/water-resistive barrier that can also function as a vapor retarder. It is based on Silica Fortified Rubber™ chemistry.

This waterproof, resilient membrane may be spray-, roller-, or brush- applied directly to approved above grade wall substrates. It provides excellent secondary moisture protection behind most wall claddings including brick, siding, metal panels, and EIFS.

#### TYPICAL APPLICATIONS

As a very low permeability, air, vapor and water barrier for high rise and low rise residential, commercial, institutional buildings.

As an integral part of building designs to reduce heating and cooling costs during the life of the building.

For use over the following above ground, exterior wall substrates:

- In-situ concrete
- Precast concrete
- Concrete blocks (aerated, hollow and solid)
- Cement board

## ADVANTAGES

- Meets Class A classification of surface flame spread according to ASTM E 84
- Exhibits 0.01%l/s/m<sup>2</sup> air permeance according to ASTM E2178 – easily meets air permeance of Building Materials ASTM E2178

- Meets ASTM D1970 nail sealability requirements with and without Sheathing Fabric – Self-sealing performance
- Tough, abrasion resistant membrane when cured

   rugged resists damage by following trades after installation
- One component, low-VOC formulation easy to apply, meets statutory VOC requirements
- Non-flammable; improves workplace safety
- Mineral oil and plasticizer free; will not dry out or crack
- Water based tools can be cleaned with water; solvents and citrus based cleaners not required
- Approved for use with Master Builders Solutions EIFS and stucco systems – full system warranty, seamless membrane for buildings with multiple claddings
- Can be left exposed for 120 days allows flexible construction scheduling

### PACKAGING AND COLORS

**MasterSeal AWB 661I** is supplied in 25 kg pails and available in grey and reddish-brown colors.

#### TYPICAL PROPERTIES\*

Test	Results
Solids Content	74%
VOC Content – ASTM D2369 (EPA method 24 part)	4 g/l
Surface Burning – ASTM E84 @ coating thickness	Class A Flame Spread Index (<25)
±600 microns	Class A Smoke Developed Index (<450)
Fire Resistance E119/UL263	Has been shown not to add or detract from the rating of a
	fire resistive wall assembly
Air Permeance of Building Materials - ASTM E2178	0.01 l/s.m² @ 75 Pa
Water Vapor Transmission - ASTM E96 Method B	<1.0 Perms (grains/Hr.) @ 0.5 mm wet film thickness
Pull-Off Strength - ASTM D4541-2002	1.0 N/mm²
Multi-Story Fire Tests - NFPA 285	Passed using Master Builders Solutions EIFS System
Water permeability BS EN 12390	Nil
Drainage efficiency ASTM E2273	>90%



# MasterSeal® AWB 6611

### **APPLICATION GUIDELINES**

Application Equipment
Use a 20mm nap roller or paint brush.

If spraying, refer to Method Statement for MasterSeal AWB 661I / MasterSeal AWB 661HP / MasterSeal AWB 661FL for details of spray application equipment and application instructions.

Application: pretreatment of rough openings and joins in cement boards.

All rough openings such as window openings should be fully pretreated with **MasterSeal AWB 6611.** 

If applying to cement fiber boards or similar, all joints should be pretreated with reinforcing fabric embedded in **MasterSeal AWB 661I**.

For full details see Method Statement.

If using roller, brush or trowel application, allow any previously applied materials to board joints or rough openings to dry to the touch before applying **MasterSeal AWB 661I** to entire wall surface. If spraying, "wet on wet" application is acceptable.

If applying by roller, it is necessary to pre-wet the synthetic roller pad with water spin out the excess water. The pre-wetting only needs to be done once at the start of application.

Apply first coat to a uniform wet film thickness of 300 - 325 microns. Allow to dry and check for blisters and to ensure the coating is void and pinhole free. Apply second coat at 300 - 325 microns wet film thickness.

When spraying a single coat of 600 - 650 microns wet fil thickness can be applied but only on cement boards meeting ASTM C1177 standard or on concrete masonry substrates that have first been pretreated with a scrape coat of

#### MasterSeal AWB 661FL.

Allow to dry completely. Drying time 2-4 hours @ 20°C.

Clean tools and equipment with water immediately after use. Dried material can only be removed mechanically.

Application temperatures

**MasterSeal AWB 661I** can be applied from +5°C to 40°C.

### SURFACE PREPARATION

Substrates must be dry, clean, sound and free of curing compounds, release agents, paint or other residue or contamination.

Surface irregularities in concrete, block or brick work should be pretreated with **MasterSeal AWB 661FL** (see Product Data Sheet) to provide a smooth surface and ensure a void and pinhole free membrane.

#### MIXING

MasterSeal AWB 6611 is supplied as a single component material which can be used directly from original packaging or poured into a new container that is clean and free of foreign substances. It should be thoroughly stirred with a clean, rust-free drill and paddle until homogeneous.

Never dilute **MasterSeal AWB 661I**. Close container when not in use.

# COVERAGE / YIELD

Depends on substrate and degree of preparation:

Poured Concrete	Approx. 23.5 m² per pail
Concrete Masonry Units (CMU)	Approx. 18 m² per pail
Concrete / Masonry pre- treated and smoothed with MasterSeal AWB 661FL Block Filler	Approx. 24.5 m² per pail
Cement Board	Approx. 23.5 m² per pail

\*Above figures refer to application by roller or spray and back-roll method for optimum coverage rate. Other application methods may provide less coverage. Actual results may vary depending on surface porosity, moisture uptake or other factors.

#### WATCHPOINTS

Protect from rain until completely cured.

# Do not use MasterSeal AWB 661I

for below-grade applications or on surfaces subject to water immersion.

Walls shall be capped to prevent moisture and precipitation from entering wall during construction.

Limit the weather exposure of

**MasterSeal AWB 661I** to a maximum of 120 days in Middle East conditions.



# MasterSeal® AWB 661I

#### STORAGE AND SHELF LIFE

Shelf life is 12 months from date of manufacturing in unopened original containers. Product must be kept out of direct sunlight and in a dry, cool, airconditioned warehouse below 35°C temperature.

Store clear of the ground on pallets and do not stack pallets.

# **HEALTH AND SAFETY**

As with all chemical products, care should be taken during use and storage to avoid contact with eyes mouth, skin and foodstuffs. Treat splashes to eyes and skin immediately. If accidentally ingested, seek immediate medical attention. Keep away from children & animals. Reseal containers after use. For further information, refer to material safety data sheet.

# **QUALITY AND CARE**

All products originating from Master Builders Solutions facility are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health and safety standards of ISO 9001 and ISO 14001.

- \* Properties listed are based on laboratory controlled tests.
- ® = Registered trademark of the MBCC Group in many countries.

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NOTE

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