

PRODUCT DATA SHEET

Sikagard® AWB 661 I

(formerly MSeal AWB 661I)

Air and Water-Resistive Barrier Membrane

DESCRIPTION

Sikagard® AWB 661 I is a one-component liquid applied air/water-resistive barrier that can also function as a vapor retarder. 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.

USES

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

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

- In-situ concrete
- Precast concrete
- Concrete blocks
- Cement board

PRODUCT INFORMATION

Packaging	16 L (~24 kg) pails
Colour	Grey and reddish-brown
Shelf life	12 months from date of production in unopened original container
Storage conditions	Store in cool, dry conditions in original, undamaged sealed packaging and at temperatures between +5 °C and +30 °C. Protect from direct sunlight, heat and moisture. Clear of the ground on pallets and do not stack the pallets.
Density	~1.5 kg/l (+25 °C)
Volatile organic compound (VOC) content	< 10 g/l (US EPA 24)
Solid content by mass	~74 %

FEATURES

- Tough resistant membrane when cured – resists damage after installation
- One component, low-VOC formulation – easy to apply, meets statutory VOC requirements
- Mineral oil and plasticizer free – will not dry out or crack due to loss of oil/plasticizer over time
- Water based – tools can be cleaned with water, solvents and acidic cleaners are not required
- Approved for use with SikaWall® EIFS and stucco systems – seamless membrane for buildings with multiple claddings

CERTIFICATES AND TEST REPORTS

- Reaction to fire: Class **A2-s1,d0** as per EN 13501-1:2018
- Surface burning characteristics: **Class A**, as per ASTM E84-25
- In compliance with: UAE Fire and Life Safety Code of Practice 2018 Chapter 1, Section 7.1.45. Non-Combustible Material for Cavity Fire Barrier, certified by Dubai Civil Defense (DCD)

TECHNICAL INFORMATION

Reaction to fire

▪ Classification using data from reaction to fire tests:

DFT $\approx$ 280 μm (0.56 kg/m²)	Classification:	(EN 13501-1)
Reaction to fire behaviour:	A2	
Smoke production:	s1	
Flaming droplets/particles:	d0	

▪ Surface Burning Characteristics of Building Materials:

	Result	Class A requirements	(ASTM E84)
Flame Spread Index (FSI):	20	0–25	
Smoke developed index (SDI)	125	0–450	

Substrate: Calcium silicate board, cement-based surfaces greater than 12 mm and with density greater than 650 kg/m³

Water-vapour transmission rate	<1.0 Perms (grains/Hr.)	(ASTM E96, Method B)
Water permeability	Nil	(BS EN 12390-8)
Water retention	> 90 % drainage efficiency	(ASTM E2273/ METS IP-513)
Air permeance	$\sim$ 0.01 L/s·m ² at 75 Pa	(ASTM E2178)

APPLICATION INFORMATION

Consumption

No. of coats:	Total Consumption:	DFT
1–2	0.56 kg/m ²	$\sim$ 280 μm

Note: Do not exceed a total consumption of 0.56 kg/m² ($\approx$ 280 μm Dry Film Thickness) to achieve reaction-to-fire classification.

Yield

Pail size:	DFT:	Coverage:
16 L	280 μm (microns)	$\sim$ 40 m ²

- These figures are theoretical and do not include for any additional material required due to surface porosity, surface profile, variations in level and wastage, etc.
- Above figures refer to application by roller or spray and back-roll method for optimum coverage rate.
- DFT = Dry Film Thickness

Ambient air temperature	+5 °C min. / +40 °C max.
Tack free time	$\sim$ 45 minutes at +25 °C
Drying time	2–4 hours at +25 °C

BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

FURTHER DOCUMENTATION

General Method Statement

IMPORTANT CONSIDERATIONS

- Protect from rain until completely cured.
- Do not use Sikagard® AWB 661 I 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 and sunlight exposure of Sikagard® AWB 661 I to a maximum of 90 days in Middle East conditions.

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

EQUIPMENT

- Roller application: 20 mm nap roller and paint brush.
- Spraying: Airless spray equipment

SUBSTRATE PREPARATION

- Substrates must be dry, clean, sound and free of curing compounds, release agents, paint or other residue or contamination.
- Surface irregularities in concrete or concrete masonry units should be pretreated with Sikagard® AWB 661 FL (see related Product Data Sheet) to provide a smooth surface and ensure a void and pinhole free membrane.
- Pretreatment of rough openings and joints in cement boards shall be carried out as follows: All rough openings, including window and door openings, shall be fully pretreated with Sikagard® AWB 661 I to ensure continuous coverage at corners, edges, and transitions.
- When applied to cement fiber boards or calcium silicate boards, all board joints shall be reinforced with suitable reinforcing fabric embedded into a wet layer of Sikagard® AWB 661 I, ensuring full saturation and removal of wrinkles or voids.

MIXING

- Sikagard® AWB 661 I 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 Sikagard® AWB 661 I.
- Close container when not in use.

APPLICATION

- For roller, brush, or trowel application, any material previously applied at joints or rough openings shall be allowed to dry to the touch before applying Sikagard® AWB 661 I to the full wall surface. For spray application, wet-on-wet application is acceptable where uniform coverage can be maintained.
- When applying by roller, pre-wet the synthetic roller cover with clean water and spin out excess so the roller is damp but not dripping. This pre-wetting is required only once at the start of application.

- Apply the first coat at a uniform wet film thickness (WFT) of approximately 190 µm (0.28 kg/m²) and allow it to dry completely. Inspect the surface to ensure it is continuous and free of blisters, voids, or pinholes, then apply a second coat at approximately 190 µm WFT (0.28 kg/m²).
- Alternatively, where the substrate is properly pretreated, the product may be applied in a single uniform coat at a total WFT of approximately 380 µm (0.56 kg/m²).
- For spray application, a single coat of 380 µm WFT may be applied only on cement boards complying with ASTM C1177 or on concrete masonry substrates pretreated with a scrape coat of Sikagard® AWB 661 FL.
- Allow the system to dry completely before exposure or installation of subsequent finishes.

CLEANING OF EQUIPMENT

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

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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ISO 9001, 14001 – SGS:
- Sika Saudi Arabia Limited
ISO 9001, 14001 – TÜV:
- Sika UAE LLC (Branch)
ISO 9001 – SGS:
- Sika MB LLC

All products are supplied under a management system certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, ISO 14001 and ISO 45001.



Product Data Sheet

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