

Air-Bloc 31MR

Fluid Applied, Vapour Permeable
Air & Water Barrier Membrane

Physical Properties - Typical

| | | | |
|---|--|---|---|
| -Colour | Grey | -VOC Content | 100 grams/liter, max. |
| -Solids by Weight | 60% | -Watertightness CAN/CGSB-37.58-M86 | Pass |
| -Weight | 1.3 kg/l (10.8 lbs/gal) | -Water Vapour Permeance ASTM E-96, proc. B @ 3mm (1/8") wet film | 1,201 ng/Pa.m ² .s (21 perms) |
| -Drying Time@50% R.H. +20°C (+68°F) on Dry Substrate | 2 Hours to touch dry 24 Hours to firm dry | -Air Permeability Testing -ASTM E283, applied at 2.2 l/m ² to CMU wall | |
| -Service Temperature | -40°C to +70°C (-40°F to +158°F) | <u>Pressure (Pa) @ 21°C</u> | <u>Air Leakage (L/s.m²)</u> |
| -Application Temperature | +4°C to +50°C (+40°F to +122°F) | 75 | 0.00051 |
| -Tensile Strength ASTM D412 | 950 kPa | 250 | 0.00071 |
| -Elongation, % ASTM D412 | 925% | 300 | 0.00075 |
| -Peel Strength to Dry Concrete ASTM C836 | 1.8 kN/m | -ASTM E2357, Assembly Air Leakage Testing | Pass |
| -Low Temperature Flexibility and Crack Bridging @ -20°C ASTM C836 | Pass | -ASTM E2178 @ 75 Pa | 0.001 L/s.m ² |
| -Aging-Long Term Flexibility CGSB 71-GP-24M | No fracturing | -Resistance to Gust Wind Load | The applied membrane meets Mass/Canadian code requirements for air leakage at 3000 Pa Gust Load suction pressure and continued to meet code requirements following gust loading when tested at 75 Pa. |
| -Resistance to Mold, Mildew & Fungal growth ASTM D5590 | -0- No Growth | -Resistance to Sustained Wind Load | Resists a suction pressure of 1000 Pa maintained for 1 hour with no increase in air leakage rate when tested at 75 Pa. Pass |
| | | -Chemical Resistance | Resists salt solutions, mild acids and alkalis. Non-resistant to oils, grease or solvents. |

Reference Tests & Standards

| | | | |
|--|---|---------------------------|-----------------------|
| ASTM E2357 Air Barrier Assembly Test | ASTM D5590 Mold/Mildew/Fungus Resistant | ABAA Accreditation | CGSB-37.58-M86 |
|--|---|---------------------------|-----------------------|

Description

Air-Bloc 31MR is a fluid applied, elastomeric membrane designed to provide a permeable air & water barrier when applied to above-grade wall assemblies. It is single-component, water-based and cures to a tough monolithic rubber-like membrane, which resists air leakage and water penetration. **Air-Bloc 31MR** combines the proven performance of **Air-Bloc 31** with the addition of Henry antimicrobial technology to create an integral mold resistant membrane.

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Features

- Seamless, vapour permeable elastomeric membrane for above grade walls
- Easy, low cost spray application using simple equipment
- Integral mold resistant formulation
- High water vapour permeance provides “breather” characteristics
- Excellent adhesion to most construction surfaces such as exterior gypsum boards, CMU, concrete, stone, wood and metal
- Excellent adhesion to most wall construction surfaces -can be applied to damp concrete
- Meets highest industry performance standards

Uses

Air-Bloc 31MR is used in construction of high performance wall assemblies requiring vapour permeability in an air & water barrier membrane. Integrated with Blueskin flashing and accessories to form a complete wall system meeting highest industry performance standards. Commonly used on variety of wall substrates and sheathing prior to installation of exterior cladding. Not for permanent weather or UV exposure.

Limitations

Must be protected from damage during construction. KEEP FROM FREEZING. Do not apply to wet surfaces. Not designed for permanent exposure to weather - protect as soon as possible, however can be exposed up to 3 months if necessary to accommodate construction scheduling.

Air-Bloc 31MR shall not be applied when ambient (air) and substrate temperatures are below 5°C (40°F). The product should not be applied if it is raining, or if the possibility of rain is likely within 16 hours. The product should not be applied if it is expected that the ambient temperature will fall below 0°C within 24 hours. Following installation of **Air-Bloc 31MR** in new building construction, CMU walls where product has been applied must be protected at the roof line to prevent water infiltration into the wall cavity.

In hot weather or direct-sun applications over porous substrates, such as concrete, rapid surface drying can form blisters. A thin ‘prime coat’ application to substrate, which is allowed to dry, often prevents blister formation in subsequent application. Alternatively a two coat application vs. single heavy coat – with back rolling of base coat – also aids in prevention of blistering in hot weather.

Surface Preparation

All surfaces must be sound, dry, clean and free of oil, grease, dirt, excess mortar or other contaminants. New concrete should be cured for a minimum of 16 hours before **Air-Bloc 31MR** is applied. Concrete surfaces should be free of large voids and spalled areas.

Joint & Crack Treatment

Dynamic or expansion joint treatment must be in compliance with projects’ architectural details and specifications.

Sheathing or Substrate Non-Moving Joint Treatment Options:

Note: apply per products’ published Technical Data Sheets

| <i>Non-Moving Joint Width</i> | Method #1 Sealant Method | Method #2 Fluid-Ap Method | Method #3 Self-adhered Sheet Method |
|-------------------------------|--|---|---|
| Less than 6mm (1/4 inch) | <ol style="list-style-type: none">1. HE 925 BES Sealant2. Fill and strike smooth3. Allow to dry | <ol style="list-style-type: none">1. Fill with Air-Bloc 31MR by trowel, extending beyond joint line a minimum 75mm (3”) onto face of substrate2. Fully embed 50mm (2”) minimum Yellow Jacket glass fibre reinforcing tape into wet Air-Bloc 31MR – centered over joint. | <ol style="list-style-type: none">1. Apply Blueskin Adhesive or Blueskin LVC Adhesive2. Allow to dry3. Apply self-adhered membrane – roll in place. <p>Select One:</p> <ul style="list-style-type: none">• Permeable option:<ol style="list-style-type: none">a. Blueskin VP 160• Non-permeable option:<ol style="list-style-type: none">a. Blueskin SAb. Blueskin SA LTc. Foilskin |
| 6mm (1/4”) to 12mm (1/2”) | Same As Above | Do Not Use | Same As Above |

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Application

Air-Bloc 31MR may be applied by brush or heavy-duty airless spray in a single or dual-coat application. Apply in continuous, monolithic application without sags, runs or voids, transitioning onto flashing membrane to create a uniform drainage plane and air-barrier. Regularly monitor wet mil thickness during application to assure adequate coverage.

Coverage Rates: Apply per published architectural specifications. Typical application rates include:

- **Smooth Surfaces** such as exterior gypsum sheathing or formed concrete: 1.7 l/m^2 (4.25 gal US / 100ft²) to give a wet film thickness of approximately 1.75mm (70 mils) depending on texture and porosity of surface
- **Rough Surfaces** such as CMU: 2.2 l/m^2 (5.4 gal US / 100ft²) to give a wet film thickness of approximately 2.25mm (90 mils) depending on texture and porosity of surface

Clean Up

Use waterless hand cleaner for skin. Spray equipment can be flushed out with water. Use citrus based cleaners to remove dried films.

Caution

DO NOT TAKE INTERNALLY! Use protective measures to avoid contact with eyes and skin. If swallowed, **CALL PHYSICIAN IMMEDIATELY!** In case of eye contact, open eyelids wide and flush immediately with plenty of water for at least 15 minutes. **GET MEDICAL ATTENTION!** Do not heat container or store at temperatures greater than 50°C. Close container after each use. **KEEP OUT OF REACH OF CHILDREN.**

Product Sizes

5 gal pails, 55 gal drums

Limited Warranty

Contact Warranty Department at warranty@henry.com or location shown below for product or systems warranty information.

STATEMENT OF RESPONSIBILITY

The technical and application information herein is based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use. Henry Company data sheets are updated on a regular basis; it is the user's responsibility to obtain and to confirm the most recent version. Information contained in this data sheet may change without notice.