TECHNICAL DATA SHEET

Air-Bloc 33MR

UV, Fire & Mold Resistant
Vapour Permeable, Air & Weather Barrier Membrane

Physical Properties - Typical

-Colour	Black
-Solids by Weight	65%
-Weight/unit volume	1.4 kg/l (12lbs./gal.US)
-Drying Time@ 50% R.H. +20°C (68°F) on Dry Substrate	2 Hours to touch dry 24 Hours to firm dry
-Service Temperature	-40°C to +85°C (-40°F to +185°F)
-Application Temperature	+4°C to +50°C (40°F to 122°F)
-Tensile Strength, ASTM D412	860 kPa (125 psi)
-Elongation, typical ASTM D412	200%
-Aging - Long Term Flexibility CGSB 71-GP-24M	No fracturing
-Flammability	Non-flammable
- Surface Burning Characteristics ASTM E84	Spread of Flame, 25 Smoke Developed, 85
-Weather Resistance Q-UV Exposure - 73 daily cycles of UV and water spray with no observable deterioration	Pass

-VOC content	100 grams per liter, max.
-Watertightness CAN/CGSB-37.58–M86	Pass
-Water Vapour Permeance ASTM E96@ 3 mm (1/8") wet film	655 ng/Pa.m^2.s (11.6 perms)
-Air Permeability Tests	
-ASTM E283, Applied to CMU	
Pressure (Pa) @ 22°C	Air Leakage (L/s.m^2)
75	0.008
250	0.017
500	0.025
-ASTM E2357, Assembly Air Leakage Testing	Pass
-ASTM E2178	0.008 **L/s.m^2**
-Resistance to Gust Wind Load	Resists suction pressure of 3000 Pa maintained for 10 seconds with no increase in air leakage rate when tested at 75 Pa.
-Resistance to Sustained Wind Load	Resists suction pressure of 1000 Pa maintained for 1 hour with no increase in air leakage rate when tested at 75 Pa.
-Resistance To Mold, Mildew & Fungal Growth ASTM D5590 -00	-0 - No Growth
-Chemical Resistance	Resists mild acids and alkalis, oil, grease, petroleum solvents and salt solutions

Reference Tests & Standards

ASTM E2357 Air Barrier Assembly Test	**ASTM D5590** Mold/Mildew/Fungus Resistant	**NFPA** Class A, UBC Class 1	**CAN/CGSB-37.58–M86**

Description

Air-Bloc 33MR is a UV & fire-resistant, 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, water penetration and long term weathering. **Air-Bloc 33MR** combines the proven performance of Air-Bloc 33 with the addition of Henry antimicrobial technology to create an integral mold resistant membrane.

Henry Company Canada, 15 Wallsend Drive, Scarborough, ON M1E 3X6
Tel: 800-486-1278 **Email:** techservices@henry.com
www.bakor.com

Air-Bloc 33MR UV Resistant Vapour Permeable Air and Weather Barrier Membrane

Features

-Seamless, vapour permeable rubberized (elastomeric) membrane for above grade walls
-UV resistant, fire-resistant, mold/mildew/fungus resistant
-Water-based, does not contain organic solvents and environmentally friendly
-Suitable for permanent weather exposure as commonly found in open-joint wall cladding systems
-Excellent adhesion to most wall construction surfaces -can be applied to damp concrete
-Meets highest industry performance standards

Uses

Air-Bloc 33MR is used in construction of high performance wall assemblies requiring vapour permeability along with water, UV, weather and fire resistance. Integrated with Blueskin flashing and accessories to form a complete wall system meeting highest industry performance standards. Commonly used on variety of wall substrates requiring long term weather exposure prior to cladding installation or with open-jointed rain screen type claddings.

Limitations

Must be protected from damage during construction. KEEP FROM FREEZING. Do not apply to wet surfaces.

Air-Bloc 33MR 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 33MR** in new building construction, CMU walls where **Air-Bloc 33MR** 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 33MR** 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

Non-Moving Joint Width	Method #1 Sealant Method	Method #2 Fluid-Ap Method	Method #3 Self-adhered Sheet Method
Less than 6mm (1/4")	1. **HE 925 BES Sealant** 2. Fill and strike smooth 3. Allow to dry	1. Fill with **Air-Bloc 33MR** by trowel, extending beyond joint line a minimum 75mm (3") onto face of substrate 2. Fully embed 50mm (2") minimum **Yellow Jacket** glass fibre reinforcing tape into wet **Air-Bloc 33MR** – centered over joint.	1. Apply **Blueskin Adhesive** or **Blueskin LVC Adhesive** 2. Allow to dry 3. Apply self-adhered membrane – roll in place <u>Select One:</u> • Permeable option: a. **Blueskin VP 160** • Non-permeable option: a. **Blueskin SA** b. **Blueskin SA LT** c. **Foilskin**
6mm (1/4") to 12mm (1/2")	Same As Above	Do Not Use	Same As Above

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Application

Air-Bloc 33MR 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 at 2.5 l/m^2 (6 gal US / 100ft^2) to give a wet film thickness of approximately 2.4mm

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 49°C (120°F). 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.

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