



SANDELL'S AIR-TIGHT™ AIR & VAPOR BARRIER LIQUID MEMBRANE

Product Description:

Sandell's Air-Tight™ Liquid is a spray-on or fluid-applied waterproofing membrane applied to the exterior of foundation walls of concrete masonry units or cast-in-place concrete construction.

Technical Information:

The membrane has a resistance to hydrostatic pressure of 2.0 psig (14 kPA) when tested over a 1/16 inch wide (1.6 mm) crack in accordance with ASTM C 1306. Manufacturer's recommended storage temperature ranges between 70°F and 140°F (21°C and 60°C)

- ❖ Meets the requirements of ICC AC-29 and ASTM E96 Water method.
- ❖ Low-temperature flexibility and crack bridging
- ❖ No cracking or loss of adhesion
- ❖ No blistering or re-emulsification
- ❖ Averages a 0.134 Perm rating when tested in accordance with ASTM E96 for water vapor permeance.
- ❖ Averages 4.63% water absorption when tested in accordance with ASTM 570 for water absorption.
- ❖ Nail Sealability: Sandell's Air-Tight™ Liquid has no leaks when tested in accordance with ASTM D 1970 for Nail Sealability.

Size:

Sandell's Air-Tight™ Liquid is furnished in a 1-gallon (3.8 L) cans, 5-gallon (18.9 L) pails, 55-gallon (208 L) drums, and 275-gallon(1041 L) totes and bulk containers, and has a six-month shelf life.

Application:

Sandell's Air-Tight™ Liquid should be applied with a brush, roller or spray applied. Application should be made in two equal coats to a minimum total wet thickness of 60mils (0.060 inch, 1.5 mm), to exterior vertical surfaces of below-grade foundation walls of either cast-in place concrete or concrete masonry unit construction. It cures to a minimum total dry film thickness of 40 mils (0.040 inch, 1.02 mm). If you apply at a wet thickness of 90 mils the dry film thickness would be 60 mils. The coating shall be allowed to cure for a period of 4 to 24 hours, depending on ambient temperature, before any backfill is placed against the wall. The air temperature for application must be a minimum of 26°F (-3.3°C). There is not

maximum temperature limit. The surface to which the coating is applied must be structurally sound, clean, and dry, and free of dust, mud, loose mortar, sand, soil, frost or other loose materials. Additionally, there must be no fins, metal projections or any substance that will prevent bonding of the coating membranes to the surface. Voids in concrete, tie holes and honeycombed areas in the foundation wall must be filled with non-shrinking grout or an asphalt-based mastic. Where non-shrinking grout is used for filling voids, the grout must be allowed to cure before the membrane is applied. Concrete and parged masonry surfaces must be cured and dry prior to application of the liquid waterproofing membrane. Protection boards shall be provided to protect the waterproofing when backfill contains angular stone or other sharp objects. Installation of Sandell's Air-Tight™ Liquid shall comply with the published and recommended instructions. Joints and penetrations of the walls to which this product is applied must be made watertight in accordance with the requirements and applicable code. Applications of the coating on uncured ("green") concrete is outside the scope of the installation instructions recommended. Sandell's Air-Tight™ Liquid as described in the technical data sheet shall be identified by a label bearing the manufacturer's name. (Sandell Manufacturing), and address, the product name, and the evaluation number.

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| Adhesion strength to poured cement: | 13.239 lbf/in |
| Pull adhesion to poured cement: | 77.2 psi |
| Adhesion strength to masonry: | 12.092 lbf/in |
| Pull adhesion to masonry: | 106.0 psi |
| Extensibility after heat aging: | ¼", no cracking |
| Thickness: | 0.047 inch |
| Tensile Strength: | 41.3 psi |
| Elongation: | 807.38% |
| Proportion of Solids: | 65.62% |
| Volatile Content: | 0.52% |

TECHNICAL ASSISTANCE:

Call Sandell directly for technical assistance or product questions:

- New York: 800.283.3888
- Alabama: 877.726-3355
- Wisconsin: 800.323-3565

 www.sandellmfg.com

Amendments / Notes:

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TECHNICAL DATA SHEET

Sandell Employee:

Date:

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