



DESCRIPTION

ADHL-VAPOR / Epoxy Moisture suppression system, is a high performance, 100% solids, two-part epoxy, and one-coat moisture vapour emission barrier system. It is designed to suppress excessive moisture in new or existing concrete slabs forming a solid film layer on the surface for moisture transmission reduction. may be used at different coverage rates depending on the level of moisture vapour emission control required.

WHERE TO USE

ADHL-VAPOR is recommended over existing concrete where the level of moisture emissions from the slab exceeds the maximum allowed by the manufacturer of the finished floor covering such as vinyl tiles and sheeting, rubber-backed carpet, hardwood and epoxy topcoats. May be used as a polymeric complete coating system without the need for the top coat application.

BENEFITS

- Offers the performance of a Class 1 Vapour Diffusion Retarder (perm rating <0.1 perms) at 16 mils.
- Low mix viscosity
- Fast re-coat time
- Outstanding adhesion to concrete
- It can be used up to 98% relative humidity
- 100% solids, contains no solvents
- Low odor, which makes it easy to use in occupied buildings

FINISH CHARACTERISTICS

Normally, this product does not change the overall appearance of the substrate. After the material is applied and allowed to dry for 24 hours, it will not be readily apparent that the application has occurred, except the concrete will be fortified and strengthened.

OFF-GASSING

The off-gassing is not a by-product of the, but of the displacement of air in the concrete. It depends on the density/PSI (compressive strength of the concrete); the lower the psi and/or water added to the concrete during pouring, the more off-gassing in the concrete. Because the **ADHL-VAPOR** has low

viscosity, it more effectively penetrates the concrete which displaces the air and may occasionally cause off-gassing.

FILM THICKNESS & COVERAGE

Depending on the measured relative humidity of the concrete slab, **ADHL-VAPOR** can be applied at the following coverages to control varying levels of moisture emissions:

1. Up to 10 lbs. per 1000 sq. ft. per 24 hours (130 sq. ft. per U.S. gal.)
2. Up to 15 lbs. per 1000 sq. ft. per 24 hours (100 sq. ft. per U.S. gal.)
3. Up to 25 lbs. per 1000 sq. ft. per 24 hours (70 sq. ft. per U.S. gal.)

HANDLING PROPERTIES

Mix Ratio, by volume	1.7 part A: 1 part B
by weight	2 part A: 1 part B
Viscosity (Mixed)	700 cps
Solids Content	100%
Mixed Weight (Density)	1.12 kg/litre (9.4 lb./US gal)
Pot Life (Mix)	15-20 mins
Coating must be poured onto the concrete immediately.	
Minimum Application Temperature	10°C (54°F)
Foot Traffic (re-coat) @ 23°C (74°F)	8-12 hours
Foot Traffic (re-coat) @ 10°C (54°F)	24 hours
Light Vehicular Traffic	24 hours
Colour	Amber Clear

APPLICATION

Note:

The Epoxy Moisture suppression system product was not designed to go on top of a coated substrate. This **MUST** only be applied on bare concrete as it was designed. The idea behind this product is to provide a moisture barrier by adhering to the bare concrete substrate and penetrate into the pores. This is only to be used as a base coat. A top coat can then be applied over the Epoxy Moisture suppression system to finish the floor. The concrete substrate must not contain any pre-treatment of another coating or chemical as this will lead to fish eyes and will not wet out well as a result. The concrete can only be prepared by sand blasting or shot blasting, as diamond grinding will also lead to the same issue.

Read all installation instructions thoroughly before installation.

- Combine both Part A and B of **ADHL-VAPOR** and mix thoroughly for two minutes until uniform.
- Apply **ADHL-VAPOR** to the concrete substrate immediately; pull it tight to the surface with a flat squeegee.
- Within 30 minutes of the first pass, reapply **ADHL-VAPOR** (wet on wet) by spreading the material smoothly and evenly over the entire floor using a 1/8" u-notched squeegee. Make sure to create an even, void-free coating over the entire surface. A total film thickness of 15 mils.
- **ADHL-VAPOR** must be applied in a monolithic application. If pinholes or voids are observed, a second coat is required to eliminate the probability of a flooring failure. Lightly sand the pinholes and tightly reapply another coat of **ADHL-VAPOR** at 5 mils film thickness over the area of concern (the sanded area).

LIMITATIONS

- For interior installations only.
- For the MVSS system to be effective, it must not have any pinholes.
- Do not install over substrates containing asbestos.
- Do not install unless the substrate and ambient temperatures are between 10 to 29°C (50 and 85°F).
- Do not apply to surfaces with visible moisture.
- Apply only to properly prepared sound and stable concrete substrates (at least 7 days old).

- Do not install over gymsun-based underlayment.
- Do not install repair mortars, screeds, self-leveling underlayment or patching compound beneath **ADHL-VAPOR**.
- Do not install over wood underlayment.
- Do not use as a final wear surface; it must be covered with a flooring system. Do not install when the moisture vapor emission rate (MVER) exceeds 25 lbs. per 1,000 sq. ft. per 24 hours.
- In all cases, the surface temperature of the prepared concrete slab must be measured and deemed to be at least 2°C (5°F above) the dew point to avoid

COVERAGE

Coverage rates depend on the application technique, substrate porosity, film thickness and required perms. For 10 mils thickness: 3.79L unit: each cover 160 sq.ft.; 10.7L unit: each cover 450 sq.ft.

PACKAGING

ADHL-VAPOR comes in pre-measured, 3.79L (one U.S. gallon) and 10.7L (2.8 U.S. gal.) unit of resin and hardener together to facilitate mixing and prevent handling problems.

CLEAN UP

Clean all equipment and installation tools immediately with xylene.

SAFETY PRECAUTION

Consult the Material Safety Data Sheet (MSDS) for specific instructions.

STORAGE

Store in a heated warehouse.

SHELF LIFE

Two years from the date of manufacture if kept in original unopened containers under normal heated warehouse conditions.

WARRANTY

The recommendations made and the information here in is the result of accurate laboratory and field tests under controlled conditions. We guarantee that the quality and properties of the materials supplied conform to our standards. Adhesiveslab Products, makes no warranties, expressed or implied, as uses and applications are beyond our control. Adhesive-slab Products. shall not be liable for any injury, loss, or damage (direct or consequential) arising from use or inability to use the products. Before using, the user is urged to pre-test the products in his/her own environment to determine the suitability of the products for their intended use, and the user assumes all risk and liability whatsoever in connection therewith.

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