

Moisture Testing: Armstrong™ VapArrest S-135 cannot be used on concrete when moisture content is greater than 12 lbs. per a Calcium Chloride test. Concrete with greater than 12 lbs. of emission should be allowed to dry out before applying any floor covering. When used for commercial applications, a Calcium Chloride test must be completed and recorded PRIOR to using VapArrest S-135 Moisture Retardant System.

IMPORTANT: Complete preparation is essential to the success of this product. When mixed, the curing process starts and cannot be stopped. **After VapArrest has been applied, do not allow it to cure for longer than 72 hours as the surface may become too slick to accommodate proper adhesive bond. After 72 hours the cured surface MUST be abraded to create an acceptable substrate prior to flooring installation. Use a maroon or black pad on a 175 RPM buffer to abrade/degloss the surface.** To best utilize this product, make sure everything is prepared prior to mixing.

Clean Up: Fresh coatings and tools may be cleaned with Bruce® Clean 'n' Strip, Armstrong™ Wipe Clean or Robbins® Spot Cleaner.

- Keep from freezing
- Best if used within one year
- VOC content: 0 g/L; calculated & reported, SCAQMD 1168

• Product Spec Features & Benefits

- o This product is marketed under the Armstrong brand for use with Bruce®, Armstrong™ and Robbins® engineered hardwood flooring
- o VapArrest is only to be used in conjunction with Armstrong™ EverLAST Premium Urethane Adhesive, Bruce® Equalizer, Hartco® 57, or Robbins® FusionLock urethane adhesives
- o Available in 1-Quart net (mixed) volume, 1.1-Gallon net (mixed) volume and 2.2-Gallon net (mixed) volume sizes

• Launch Tools & Tactics

In addition to this PnP, product specification sheets are available providing detailed product information that can be used by contractors, retailers, and installers. Each specification sheet provides technical product information and installation guidelines as well as material safety data (MSDS) information. Also available is an installation training CD that provides detailed instructions on the use of VapArrest and its application.

Armstrong VapArrest™ S-135 – Professional Moisture Retardant System

With today's challenging moisture issues for hardwood flooring installations on concrete subfloors, the environment can wreak havoc on the flooring and the adhesive. In extreme cases, the adhesive fails to properly bond flooring to the subfloor creating hollow spots or buckles. Armstrong has developed a solution to these problems. After five years of testing and analysis using advanced procedures and state of the art equipment, Armstrong is proud to introduce VapArrest, the professional's hardwood flooring moisture retardant system.

Why is VapArrest the choice for your customer? It's an effective solution to an ongoing problem of moisture on concrete slab construction. VapArrest will reduce vapor transmission from leveling compounds and concrete subfloors up to 75% with vapor transmissions as high as 12lb./1000 ft.2/24 hr. in a single coat. No other one-coat system tested can reduce vapor this much.

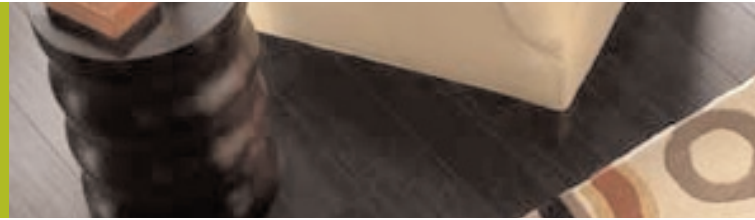
Available in three sizes and positioned under one brand, VapArrest will be used when installing Bruce®, Armstrong™ and Robbins® engineered hardwood flooring using Armstrong™ EverLAST Premium Urethane Adhesive, Bruce Equalizer, Hartco 57 and Robbins FusionLock urethane adhesives only.

• QUICK HIT Selling Points

- o VapArrest is a two-part epoxy sealer to be applied to concrete subfloors when moisture vapor levels exceed hardwood flooring requirements (works with vapor transmissions up to 12 lb./1000 ft.2 /24 hr. per calcium chloride moisture test)
- o Each carton contains Part A & B of the epoxy mix and a wet film thickness gauge to measure and verify proper film depth as VapArrest is applied
- o Product is mixed and roller applied in one coat to a 6 mil thickness saving installation time and expense
- o Rapid cure time – in as little as 12 hours saving installation time
- o Superior vapor transmission reduction reduces the potential for mold and mildew growth

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ALL TOGETHER BETTER.

• **Competitive Analysis**

Features	Benefits	Competitive Comparison
• Best in Class Moisture Vapor Perm rating of all products tested	• Reduces water vapor transmission up to 75% (to less than 3lb./1000 ft.2/24hr.)	• Offer little or no moisture protection, despite claims (glorified house paint)
• Superior vapor transmission reduction	• Reduces potential for mold & mildew growth	• Will not reduce potential for mold growth
• No special subfloor preparation required and can be used over cementitious leveling compounds	• No additional prep time or expense required prior to application	• Shot-blasting and patch or underlayments required
• Single coat, roller application	• Quick and easy to apply	• Trowel application and multiple coats required
• Rapid cure time—in as little as 12 hours	• Floor is ready to install the next day	• Up to 72 or more hours to cure
• No VOCs	• Environmentally Friendly, Low Odor	• Contain some level of VOCs
• Full Lifetime Adhesive Bond & Subfloor Moisture Warranty with no pre-installation moisture test required in residential applications!	• Straightforward and complete warranty protection	• Warranty as short as 5 years with multiple caveats

• **Competitive Product Attribute Comparison**

Product	Armstrong™ VapArrest™ S-135	Competitive Products				
		T	DC	M	B	P
Maximum Subfloor Vapor Transmission (lbs CaCl₂)	12	12	8	12	Not specified	6
Easy to Install – No Subfloor Prep – 1 Coat – Roller Applied	YES	YES	NO	NO	NO	YES
Spread Rate (ft.2/gal)	270	400	175	200-300	40-45	150-175
Cure Time as fast as 12 hours	YES	NO	NO	NO	NO	NO
Lifetime Warranty Offered	YES	YES	NO	NO	NO	NO
Pre-Installation Moisture Test Required	NO	YES	YES	YES	Not specified	YES
Contains VOCs	NO	NO	NO	YES	YES	NO
Perm Rating (perms)	.27	0.43	11.6	11.80	Not Available	Not possible to calculate

No other moisture retardant product offers ALL of the combined features and product attributes of VapArrest in one system!

• **The Armstrong Difference**

Many building materials release volatile organic compounds (VOCs), which are gases that can trigger allergic reactions, asthma and upper respiratory infections. Armstrong™ VapArrest does not emit any VOCs which adversely affect indoor air quality.

- o **Brand** – When you choose an Armstrong™ adhesive, you can be sure that you're using a high quality product that will perform great and is made to last.
- o **Service** – Available at specialty retailers in the United States. Will be available in Canada in early 2007.
- o **Technology** – five years of testing and analysis using advanced procedures and state of the art equipment devoted to developing this product
- o **Providing Value to our Customers** (for all installers)
 - A strong sealer choice that is easy to use and saves installation time and expense
 - Ability to install hardwood over concrete provides more options for upgrading and increasing the value of a home
 - A product you can trust – Full Lifetime Adhesive Bond & Subfloor Moisture Warranty with no pre-installation moisture test required in residential applications. Based on the superior performance of the VapArrest™ System and our confidence in its ability to prevent vapor transmission, we have removed the warranty requirement for a pre-installation moisture test when the VapArrest System is used in residential applications. A pre-installation moisture test must still be conducted when VapArrest is used in commercial applications.

• **Product Ordering Information**

Item Number	
FP00135208	VapArrest™ Prof. Moisture Retardant System – 2.2-Gallon English/Spanish
FP00135108	VapArrest Prof. Moisture Retardant System – 1.1-Gallon English/Spanish
FP00135104	VapArrest Prof. Moisture Retardant System – 1-Quart English/Spanish
FPS-135208	VapArrest Prof. Moisture Retardant System – 7.56 L - English/French
FPS-135108	VapArrest Prof. Moisture Retardant System – 3.78 L - English/French
FPS-135104	VapArrest Prof. Moisture Retardant System – 946 mL - English/French

• **Installation Information**

For Use With: Armstrong™ EverLAST Premium Urethane Adhesive, Bruce® Equalizer, Hartco® 57 and Robbins® FusionLock urethane adhesives on concrete subfloors. VapArrest™ S-135, when properly mixed and applied, helps reduce the transmission of moisture to the wood flooring from the subfloor. This reduces the potential for mold and mildew growth on or under the floor caused by subfloor moisture. This product is not intended for mold and mildew abatement.