


S-452 Seal Strong™

Two Part Moisture Mitigation System

 Caution avoid eye and skin contact

For use with the following commercial and residential uses:

- Suitable on porous, unheated concrete slabs to reduce moisture vapor emission rates from 100% RH or 25 lbs/1000 sq. ft./24 hrs. to suitable levels before applying underlayment.
- Only one coat required to penetrate and to fully seal the substrate.

Description	
Type	Solvent-free two-part epoxy
Color	Amber
Taggants	None
Applicator	Squeegee and 3/8" nap roller
Coverage	Approximately 290 sq. ft. per unit
Units	2-component system Part A: 1.47 gallons (6.25 kg) resin in metal canister Part B: 0.96 gallons (3.75 kg) hardener in metal canister
Working Time	Approximately 40 minutes at 65° F
Curing Time	Approximately 4-6 hours
Shelf Life	18 months if unopened
Freeze/Thaw Stable	Do not freeze. Store in temperatures above 45° F
VOC Content	<100 g/L (A+B combined); calculated, SCAQMD 1113
Clean Up	Clean tools in water immediately after use.
Bonds To	Porous concrete surfaces with moisture limits of 100% RH per ASTM F-2170 or 25 lbs/1000 sq. ft./24 hrs. per ASTM F-1869.
Advantages	Suitable for use up to 100% RH (or 25 lbs CaCl). Only one coat required to fully seal concrete. Shot blasting not required in some instances. Can be installed on top of Armstrong® Flooring S-453 Level Strong™ Longer working time and faster drying time.

NOTE: Follow recommendations of the latest edition of ASTM F-3010 “Standard Practice for Two-Component Resin Based Membrane – Forming Moisture Mitigation Systems for Use Under Resilient Floorcoverings”.

- **Substrate Requirements:**
 - Before applying Armstrong® Flooring S-452 Seal Strong™, a Moisture Vapor Emission Rate per ASTM F-1869 or a relative humidity of the concrete, using ASTM F-2170 must be obtained.
 - Substrates must be profiled to achieve CSP 2 - 3 prior to the use of S-452 Seal Strong™.
 - Subfloors must be porous, smooth, sound, clean and free of any contaminants which may hinder adhesion.

- Check porosity by doing a water drop test following ASTM F-3191.
 - If water forms droplets without absorbing within 1 minute, the surface is non porous and is probably contaminated with sealers, curing compounds, abatement chemicals or oil.
 - Such invisible contaminants must be removed completely by mechanical methods such as shot blasting.
- Surface treatments or any “friable” areas of the subfloor must be mechanically removed and the subfloor repaired with water resistant Armstrong® Flooring underlayments as required.
- Moving joints must be honored up to the final surface.
- Adhesives and residues have to be removed completely. The complete mechanical removal of cutback (i.e. grinding, sanding, and blasting) can be hazardous as old cutback adhesive may contain asbestos*. Do not sand or grind adhesive residue. Harmful dust may result. Inhalation of asbestos dust may cause asbestosis or other serious bodily harm.
- To ensure an ideal, dust-free surface, vacuum the substrate properly using an industrial vacuum cleaner.
- The subfloor surface must be visually dry to ensure a suitable adhesion of the vapor barrier.
- Substrate temperature must be at least 5°F away from the dew point during application and drying to avoid condensation on the surface.
- Do not use moisture mitigation systems on gypsum based substrates.

Application: Thoroughly mix the S-452 Seal Strong™ resin (component A) with the S-452 Seal Strong™ hardener (component B) to a homogenous mix approx. 3 minutes using a low speed mixer (approx. 150 rpm) preventing entraining air. Apply the mixed S-452 Seal Strong™ evenly across the area and spread with a squeegee avoiding moving too fast allowing S-452 Seal Strong™ to saturate the concrete surface. After a waiting time of approx. 10-20 minutes saturate a 3/8" nap roller and begin to back roll to evenly distribute the epoxy film over the surface avoiding puddles. After a drying time of approx. 4-6 hours (no transfer to the touch at 65°F floor temperature) prime with Armstrong® Flooring S-455 Prime Strong™ non porous primer following the referring product data sheet prior to installing an Armstrong® Flooring underlayment. If any following materials are not applied within the first 24 hours after drying of S-452 Seal Strong™, then always rough the top surface of S-452 Seal Strong™ up using a suitable pad, but without affecting the moisture mitigation properties.

Note: Mixed material left in the mixing container will generate heat.

Disposal: Empty canisters and dispose of in accordance with federal, state and local waste disposal regulations. Pour excess material onto a disposable surface (such as cardboard) or into disposable containers (at a thickness no greater than 1/4") and dispose of after curing following the regulations.

Precautions:

Contaminants like aggregates causing alkali-silica reaction (ASR), material constituents or reaction products, bond breakers such as curing compounds, deleterious salts, silicate based surface hardeners, and more may prohibit S-452 Seal Strong™ from working properly.

If it is unknown what types of treatments may have previously been applied to the concrete subfloor, the concrete should be tested to determine if any past treatments may jeopardize the use of S-452 Seal Strong™. The responsibility for conducting such tests lies with the building owner and/or it's authorized jobsite crew.

- Contains epoxy constituents. May produce an allergic reaction.
- For professional use only.
- Harmful if swallowed or if inhaled.
- Causes severe skin burns and eye damage.

- May cause an allergic skin reaction.
- Harmful to aquatic life with long lasting effects.
- Keep out of reach of children.
- Wear protective gloves/protective clothing/eye protection/face protection.
- IF ON SKIN: Wash with plenty of soap and water.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Call a POISON CENTER or physician if you feel unwell.
- Avoid release to the environment.
- Dispose of contents and container in accordance with all local regulations.
- Do not breathe dust/gas/vapors/spray.
- Carefully read and follow all cautions and warnings on product label.

For complete safety information, please refer to the Safety Data Sheet, or visit our website at armstrongflooring.com or floorexpert.com.

*Some previously manufactured asphaltic "cutback" adhesives contain asbestos. For removal instructions, refer to the Resilient Floor Covering Institute's publication Recommended Work Practices for Removal of Resilient Floor Coverings.