


S-453 Level Strong™

 Caution avoid eye and skin contact

For use with the following commercial and residential uses:

- Overall leveling of concrete subfloors on any grade level
- Rapid drying cement screed systems
- Gypsum substrates
- OSB panel, plywood (well fastened or bonded)
- Old water-resistant adhesive residues
- Armstrong® Flooring S-452 Seal Strong™

Description	
Type	Cement based self-leveling compound mixed with plain water
Color	Gray
Taggants	None
Trowel	Smoothing trowel
Thickness	1/8" up to 1" without aggregate Up to 1" without aggregate (for more information contact Armstrong® Flooring Techline)
Coverage	60 – 70 sq. ft. at 1/8" thick per bag
Mix Ratio	55 lb. (25 kg.) powder to 6.8 qts. (6.5 liters) of cold water
Pot Life	Approx. 30 minutes
Units	55 lb. (25 kg.)
Shelf Life	1 year if unopened, stored in cool, dry conditions
VOC Content	0.5 g/L; calculated, SCAQMD 1113
Clean Up	Clean tools in water immediately.
Advantages	High compressive strength of 5800 psi (after 28 days) No RH limit for use over concrete Ready for foot traffic in approximately 2 hours Longer working time and faster drying time

Floor Preparation: All surfaces must be clean and free of dirt, oil, grease, plaster, curing compounds, polish, wax and other foreign matter as described in ASTM F-2873 "Standard Practice for the Installation of Self-Leveling Underlayment and the Preparation of Surface to Receive Resilient Flooring". Porous substrates must be primed with Armstrong® Flooring S-454 Prime Strong™ porous. Non Porous substrates must be primed with Armstrong® Flooring S-455 Prime Strong™ non porous.

Old water-soluble adhesives should be removed completely, old water-resistant adhesives should be mechanically removed as far as possible. 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

Concrete floors must be free of excess moisture and/or alkali. In cases of excessive moisture, the use of Armstrong® Flooring S-452 Seal Strong™ may be applied. If covering Armstrong® Flooring S-452 Seal Strong with Armstrong® Flooring S-453 Level Strong™ or Armstrong® Flooring S-456 Patch Strong™, priming with Armstrong® Flooring S-455 Prime Strong™ non-porous is necessary.

Do not leave standing puddles of primer. Apply underlayment when primer is dry-to-touch.

OSB panel, plywood (well fastened and/or bonded) prime with Armstrong® Flooring S-455 Prime Strong™ non-porous (undiluted).

Mixing: Using a clean mixing drum, add 55 lb. (25kg.) of Armstrong® Flooring S-453 Level Strong™ to 6.8 qts. (6.5 liters) of clean, cold water to form a homogeneous mixture. Mixing thoroughly for approx. 3 minutes using a heavy-duty drill (min. 600 rpm) is recommended to obtain a lump-free mix.

Application: Pour the mix and spread using a smoothing trowel. Even surfaces are easily achieved using a pin leveler. In higher thicknesses using a spike roller is recommended. Contact to vertical structures should be avoided by putting in an edge strip. If a second layer of leveling compound is to be applied, prime the first layer with Armstrong® Flooring S-454 Prime Strong™ porous (diluted 1:1 with water) after drying. The maximum layer thickness must not be exceeded in case of two layer applications. The second layer must not exceed the layer thickness of the first layer. Protect curing layers from high ambient temperatures, direct sunlight and draughts. S-453 Level Strong™ should dry for 24 hours prior to beginning the flooring installation.

Precautions:

Honor all designed movement joints in the concrete subfloor up through S-453 Level Strong™ and finished flooring. Designed non-movement concrete subfloor joints such as crack-control joints should be thoroughly cleaned and filled with an appropriate cement-based patch such as S-456 Patch Strong™. Random cracking in the concrete subfloor should be evaluated to determine the cause. If it is determined the cracking is caused by structural movement the cracks should be remediated.

Armstrong® Flooring cannot be responsible for concrete joint and/or crack show through related to structural movement.

- Do not use in areas of constant water exposure (such as swimming pools) as this may jeopardize the performance of the underlayment and the floor covering.
- Always install an adequate number of properly located test areas, to include the finish flooring, to determine the suitability of the product for its intended use.
- Armstrong® Flooring S-453 Level Strong contains Portland cement and sand aggregate. Avoid eye and skin contact. In case of contact, rinse immediately with plenty of water. In case of contact with eyes seek additional medical advice. Mix in a well-ventilated area and avoid breathing powder or dust.
- KEEP OUT OF REACH OF CHILDREN.
- Carefully read and follow all cautions and warnings on product label.
- Never mix with cement or additives other than Armstrong® Flooring approved products.
- Observe the basic rules of concrete work.
- Do not install below 41°F surface temperature.
- Install quickly if substrate is warm.

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.