

Epoxy Test Kit Instructions



Tools required: Hammer
Screw driver
Safety Goggles

Included in test kit:

1 quart ERP-270
1 paint stirrer
2 latex gloves

25 wood fillets
2 oz absorption liquid
(material for 5 tests)

It is very important to read and understand our Technical Information #16 (Concrete Contaminants), #18 (Sub Floor Examination) and #19 (Treatment of Cracks and Gaps) before beginning any testing.

Description: This kit is designed to test jobsite conditions of concrete subfloors that would not require shot blasting. If the concrete fails this test, then shot blasting will be required before applying ERP-270. Evaluate jobsite and calculate how many test areas are required. It is recommended one test be performed per 5,000 SF of flooring. At least one test must be performed on each floor of a multi-story building or each site of a multiple slab project. If concrete shows different colors or shade characteristics then it is recommended to perform at least one test for each area. All tests should be performed AFTER all necessary sub floor preparations such as wire brushing, sanding, grinding, vacuuming etc. have been performed. All dust, paint, or other surface pollutions must be removed by suitable means prior to test. Do not treat test areas any different than you would do the rest of the jobsite.

Absorption test: Shake bottle before each use. Place a few drops of absorption liquid on the surface of the concrete and observe the time it takes for the liquid to be absorbed into the concrete. If the liquid is absorbed into the concrete in less than one minute the slab is absorbent and further testing is only necessary if the slab was poured more than one year ago. If the liquid is still unchanged after one minute the concrete is non-absorbent which could be caused by sealers, adhesives, curing compounds or other contaminants. Proceed with epoxy pull test.



Mixing of Components: Pierce through lid and bottom of the upper part of the bucket using a screw driver or similar tool. Let the hardener flow into the lower part of the bucket for about 1 minute. Remove ring and the upper part of the pail and mix both components well using stirrer provided until color is uniform. Mix for at least two minutes. Make sure to mix along wall and bottom-part of the container as well. Temperature of both components should be at least 50°F before mixing. Pour mixture on chosen test spots immediately to prevent sealer from heating up and drying in the pail. Failure to use entire contents of pail within 20 minutes will result in the material hardening to a solid in the pail and will become very hot.



Test Site preparation: Pour thoroughly mixed content on to concrete into an 8" puddle on the sites to be tested (up to 5 sites per kit). Wait about 15 minutes to allow the sealer to spread to about 12" diameter, then set 5 pieces of the wood fillets into the puddle with half the wood into the edge of the puddle and half of the wood over dry concrete. Place the wood fillets in a wagon wheel pattern. Once test site is completed, immediately move to next test site and repeat as needed. Do not reseal pail once mixed.



Perform pull test: Allow sealer to dry and cure for 72 hours. Using a hammer and screwdriver or prybar, pry up the fillets on the outer edge over dry concrete until separation occurs. Good bond is when wood splits leaving part of wood fillet in ERP-270 still adhered to concrete (B) or if sealer separates from concrete but shows some concrete removed with floor (A). Failed bond is when sealer separates from concrete with no large concrete particles attached (C). This would indicate that more sub floor preparation is necessary. Take pictures of each test site after pulling up the fillets with the fillets being turned over and placed next to where the fillets were removed. Send these pictures to technical@staufusa.com for approval.

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(A) Picture of broken concrete

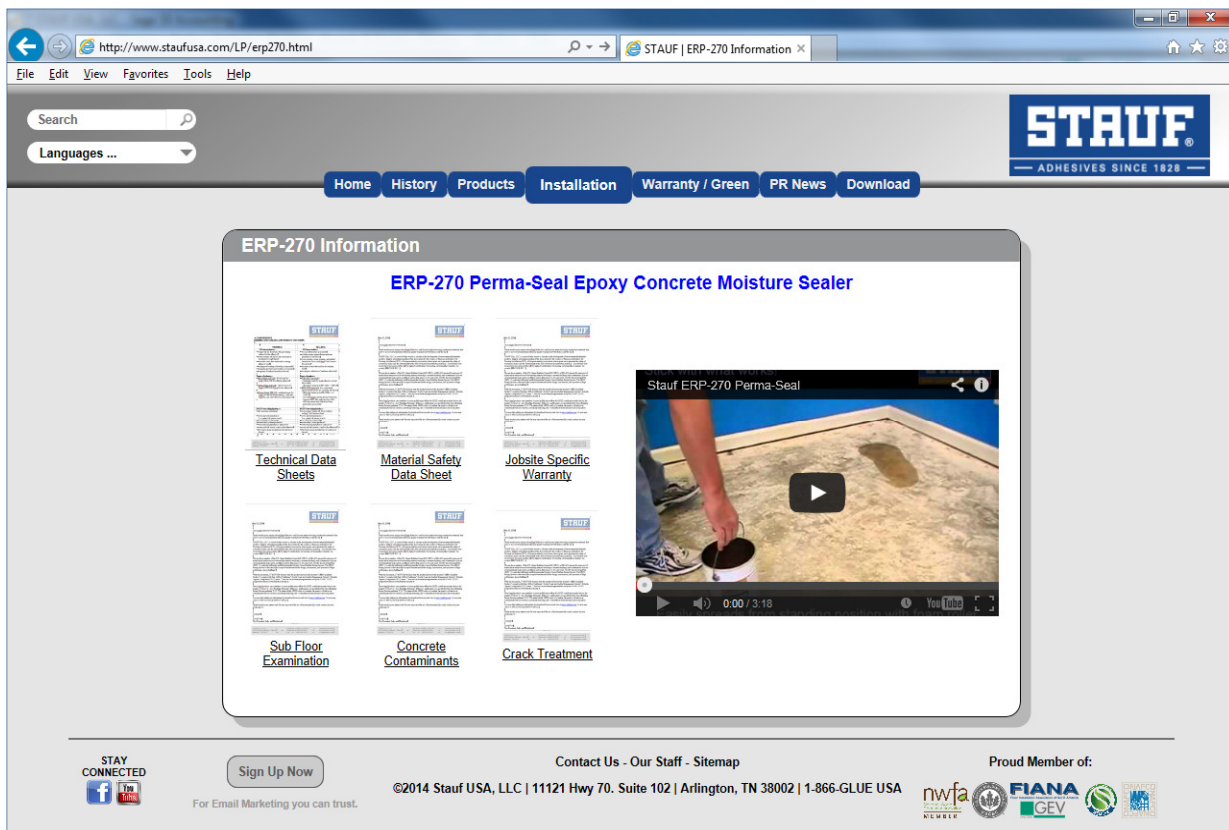


(B) Picture of broken wood



(C) Picture of released sealer

We have further information available on our website. Please go to www.staufusa.com/LP/ERP270 to find our Technical Information #16 on Concrete Contaminants, Technical Information #18 on sub floor examination and preparation, Technical Information #19 on Treatment of Cracks and Gaps, a short video that shows the mixing and application of ERP-270 as well as the Technical Data Sheets and Material Safety Data Sheet.



The screenshot shows the STAUF website interface. At the top, there is a search bar and a navigation menu with options: Home, History, Products, Installation, Warranty / Green, PR News, and Download. The main content area is titled "ERP-270 Information" and features the product name "ERP-270 Perma-Seal Epoxy Concrete Moisture Sealer". Below this, there are several links to documents: Technical Data Sheets, Material Safety Data Sheet, Jobsite Specific Warranty, Sub Floor Examination, Concrete Contaminants, and Crack Treatment. A video player is embedded on the right side of the content area, showing a person applying the sealer to a concrete surface. The footer of the page includes social media icons, a "Sign Up Now" button, contact information, and logos for various industry associations like nwfpa, FIANA, and GEV.

Visit the Stauf web site for more information or call Stauf Technical Services at 901.820.0007.

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