

ENDURABLE PENETRATING SEALER

Endurable Penetrating Sealer is intended for unsealed and unstained concrete or cementitious material. The material creates an internal membrane within the matrix of the concrete. It will not alter the appearance of the substrate.

ADVANTAGES

- Fast reaction times
- Concentrated to lower shipping costs
- Resists freeze/thaw damage
- Significantly reduces damage by deicing chemicals
- Significantly reduces damage by salts or minerals
- Creates water-resistance
- Water-based
- Zero VOC content
- Non-toxic
- Reduces spalling and scaling
- Reduces effects of acid rain, alkali attack
- Reduces effects of corrosion and UV damage
- Reduces mold/mildew buildup
- Decreases efflorescence
- Breathable
- Improves cleanability
- Reduces permeability
- Allows proper vapor transmission for proper curing
- Reduces mineral salts intrusion
- Reduces water migration
- Makes ice removal easier

WHERE TO USE

Use on concrete, cementitious materials, and natural stones

PACKAGING

1-gallon concentrate to make 4 gallons

COVERAGE RATES

100- 500 square feet per gallon depending on porosity

PRODUCT AVAILABILITY

Product is available at retail distributors around the world.

Visit the Endurable website to find the nearest distributor.

REGULATORY INFORMATION

VOC CONTENT - 0 g/L

LEED

At 0 g/L of VOC content, product may contribute towards LEED certification.

PREPARATION

Substrates to be sealed ideally will be a minimum of 28 days old.

For freshly placed concrete, surfaces should be clean, dry, and porous enough to allow penetration into the substrate.

For existing surfaces, substrates should be clean and free of surface laitance, oil, dirt, mildew, grease, previous sealers, curing agents, paint or other surface coatings, and other contaminants. Do not use acidic or alkaline cleaners prior to application. Use Endurable Surface Cleaner to clean the concrete prior to application.

MIXING INSTRUCTIONS

This product is concentrated and should be mixed 1 part product to 3 parts water in a 5-gallon bucket. Shake product before mixing with water. Stir the concentrate and water together for 30 seconds with a mixing drill and paddle. It may also be shaken for 1 minute.

APPLICATION

Always test porosity prior to application. This is especially important on power-troweled concrete. Surface should be dry for proper penetration of the sealer. Product should not be applied to damp or wet surfaces or if rain is expected within 10 hours after application.

Agitate material thoroughly before and during application. Do not apply below 35°F or above 90°F during the application or while product is drying. Apply evenly with a low pressure sprayer. When applying material, work in small, manageable areas at a time in order to maintain a wet edge. Product should be applied to the point of rejection and be fully absorbed within 10 minutes without puddles. Use a broom, roller, or microfiber pad to evenly distribute product as well as disperse any puddles as excessive application may result in residue (especially noticeable on darker surfaces) which will not affect sealer performance and can be removed by power washing or it will likely wear off after time.

For dense surfaces, generally only one application is required. However, for extremely porous surfaces where additional product can be absorbed, another light application may be applied to enhance performance. Clean application materials with soap and water.

TEST DATA

- **Moisture Vapor Transmission Rate: 2%**
- **NCHRP 244 Series (11 Cube Test: 3.1): <12% weight gain**
- **NCHRP 244 Series (11 Cube Test: 3.2): <9% absorbed chloride**
- **NCHRP 244, Series IV (4.1 Southern Exposure): Absorbed chloride: <7%**
- **NCHRP 244, Series IV (4.1 Northern Exposure): Absorbed chloride: <7%**
- **UV-Testing (Modified): No change. Excellent results**
- **ASTM-Elcometer Pull (280 lbs): Concrete failed 1st. No delamination**
- **ASTM C642: Absorption: Phase 1 (48 hrs): 0.62%; Phase 2 (50 days): 1.25%**
- **ASTM C836: Film thickness on a vertical scale: Passed**
- **SS-W-110C: Water repellence on masonry test: 1.925%**
- **ASTM C672: Scaling Resistance: Passed. No scaling**
- **AASHTO 259 and T260: 90 Day Ponding: Passed**
- **ASTM D2939: Resistance to water solubility, flexibility: No cracking**
- **ASTM D466: Resistance to water flow and action: Excellent adhesion. No re-emulsification**
- **ASTM E96: Water vapor transmission: .04 grains/sq/ft./hr. Water permeability: .102 perms**

LIMITATIONS

Product is designed to work only on porous concrete and cementitious substrates. It is not intended for asphalt. This product may damage vegetation, metal, glass, vinyl, and plastic. Avoid contact with eyes and skin. Product may be compromised if frozen prior to use. Material is not intended to seal cracks.

WARRANTY

Evaluate whether this product is suitable for your intended application. Conditions of product use are outside of our control and vary widely, the following is made in lieu of all express or implied warranties of merchantability: Our only obligation and your only remedy are replacement of product, at the option of Endurable. In no case will Endurable be liable for any direct, indirect, special, incidental, or consequential damages including lost profits, goodwill, or business opportunity.

TECHNICAL ASSISTANCE

For technical questions or support, call 800-910-3120 ext. 1 between the hours of 8:30 am to 4:30 pm PST.

STORAGE AND SHELF LIFE

Product has a shelf life of a minimum of 2 years in original containers. Store product between 40 and 80 degrees Fahrenheit. Keep product free from excessive heat, moisture, and freezing.

SAFETY

Use with proper ventilation. May cause eye and skin irritation. If you experience headaches, dizziness, or watery eyes, you may wear a NIOSH TC-84 respirator during application. Use extreme caution when walking on wet product, as the product is slippery when wet.