INCRETE SYSTEMS HIGH PERFORMANCE EPOXY is a 100% solids high performance coating designed to provide high gloss, high-build protection for concrete, rigid surfaces and masonry; offering good protection against cleaners, oils, fuels, solvents and water.

As a 100% solids coating, HIGH PERFORMANCE EPOXY has lower odor than typical industrial coatings. This feature allows applications in occupied buildings.

This system may be applied in food processing, breweries, and pharmaceutical plants, kitchens, food storage rooms, and light commercial industrial facilities.

HIGH PERFORMANCE EPOXY is an FDA and USDA compliant surface for food contact.

- High gloss.
- High film build.
- Chemical resistant.
- Stain and scratch resistant.
- Very low VOC.
- Very low odor.

**FEATURES/BENEFITS**

**TECHNICAL INFORMATION**

<table>
<thead>
<tr>
<th>Material Properties @ 75°F (24°C)</th>
<th>Mix Ratio (by Volume)</th>
<th>Gel Time, 200 g, minutes</th>
<th>Tack Free, hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>VOC Content &lt; 50 g/L</td>
<td>2:1</td>
<td>35 to 45</td>
<td>4 to 5</td>
</tr>
<tr>
<td>Pot Life, 3 gal (11.4 L), minutes</td>
<td>15 to 25</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Recoat time, 18 to 24 hours</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hardness, Shore D ASTM D 2240</td>
<td>85 to 90</td>
<td>Tensile Strength, ASTM D 638</td>
<td></td>
</tr>
<tr>
<td>psi (MPa)</td>
<td>5,500 to 6,500 (37.9 to 44.8)</td>
<td>Tensile Elongation, ASTM D 638 %</td>
<td>15 to 30</td>
</tr>
<tr>
<td>Compressive Strength, ASTM D 695</td>
<td></td>
<td>Bond Strength ASTM D 4541</td>
<td>Greater than Concrete</td>
</tr>
<tr>
<td>@ 7 days</td>
<td>9,800 (67.6)</td>
<td>7,500 (51.7)</td>
<td></td>
</tr>
<tr>
<td>Flammability ASTM D 635</td>
<td></td>
<td>Self Extinguishing</td>
<td>0.75 Max.</td>
</tr>
<tr>
<td>Water Absorption, ASTM D 570</td>
<td>24 hrs</td>
<td></td>
<td>&lt;0.5%</td>
</tr>
<tr>
<td>Resistance to Mold Growth Rating</td>
<td>10</td>
<td>ASTM D 3273</td>
<td>No Growth</td>
</tr>
<tr>
<td>Resistance to Bacteria Growth</td>
<td></td>
<td>ASTM G 22</td>
<td>No Growth</td>
</tr>
<tr>
<td>Monolithic Surfacing ASTM C 722</td>
<td>Passes</td>
<td>Abrasion Resistance, ASTM D 4060</td>
<td>32 mg loss</td>
</tr>
</tbody>
</table>

Data presented are typical values obtained under laboratory conditions.

**PACKAGING**

High Performance Epoxy is packaged in 1 gal and 3 gal kits.

**SHELF LIFE**

2 years in original, unopened containers.
HIGH PERFORMANCE EPOXY
2-PART EPOXY COATING FOR CONCRETE

Clean-Up

Clean tools and application equipment with Increte’s SOLV-KLEEN, methyl ethyl ketone or acetone immediately after use. Clean spills or drips with solvent while still wet. Dried epoxy will require mechanical abrasion for removal.

Coverage

Coverage/U.S. Gallon (3.78 L)

<table>
<thead>
<tr>
<th>Thickness</th>
<th>Coverage/sq ft</th>
<th>Coverage/sq m</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 mils</td>
<td>160 sq ft</td>
<td>15 sq m</td>
</tr>
<tr>
<td>20 mils</td>
<td>80 sq ft</td>
<td>7.5 sq m</td>
</tr>
<tr>
<td>40 mils</td>
<td>40 sq ft</td>
<td>3.7 sq m</td>
</tr>
</tbody>
</table>

Application equipment and method will have a significant effect on coverage rates as will temperature and profile.

Specifications/Compliances

USDA compliant

Directions for Use

Surface Preparation: This epoxy floor coating is designed for application on concrete substrates. All surfaces must be properly prepared before application to ensure successful installation. Improper preparation can result in poor adhesion and delamination from the surface. New concrete surfaces should be allowed to cure for a minimum of 28 days prior to coating. Some concrete surfaces may have a layer of “laittance”. This layer must be removed by mechanical method prior to installation using (ASTM D4258 Standard practice for cleaning concrete for coating). Substrate must be degreased using Increte Systems Grease-A-Way and acid etched for proper coating performance and adhesion. Old or rough concrete surfaces should be prepared and made as smooth as possible. If necessary the surface should be mechanically abraded… (See also ASTM D4259 Standard practice for abrading concrete). Surface must be degreased with Increte Systems Grease-A-Way, and etched with muriatic acid (5 parts water to 1 muriatic acid by volume) until achieving a sand paper-like finish (CSP 2-5 per ICRI Guideline 310.2). The concrete must be completely dry before coating. An MVT rate of < 3 lbs/1000 square feet in 24 hours is recommended. Alternately, the degree of dryness can be checked by securely taping clear polyethylene plastic sheet over an area of 1 square meter. Evaluate for moisture build up within 16 to 24 hours. Further drying may be accomplished by using infra red space heaters. If the coating cannot be applied after surface prepping, be sure to remove all dust or foreign matter before application.

Application: Mix only enough material to be used up in 15 minutes. This product can be applied in a single coat up to 25 mils (625 um) thick. Do not leave mixed material in a pail. Always mix the epoxy to the exact prescribed ratio. Add the entire contents of the cure container to the resin container and mix using a 450-rpm drill with a minimum 3 in. to 5 in. jiffy blade. Mix part A (Resin) with part B (Cure) for 1 ½ minutes and mix no more than 3 gallons at a time. Spread the material with a notched squeegee using spiked shoes such as spiked golf shoes. Start from one end of the floor and work backwards and sideways trying to keep a wet to wet edge. The coating should then be rolled in one direction using a 3/8-inch nap, shed-resistant roller. Make sure that the material is applied as fast as possible without leaving puddles. Discard container after use.

Precautions/Limitations

• Store at temperatures between 50°F to 90°F (10°C to 32°C). Protect from moisture and freezing.
• Do not acetate during mixing.
• Do not mix or apply unless surface, air and material temperatures are 50°F (10°C) and rising.
• Do not apply if surface temperature is within 5°F (-15°C) of the dew point in the work area.
• Cure new concrete 28 days before application.
• Do not apply to slabs on grade unless a heavy uninterrupted vapor barrier has been installed under the slab.
• Do not apply if the floor is subject to moisture vapor drive or hydrostatic pressure.
• For applications which require color stability, one of Increte’s Urethanes should be used as a topcoat.
• HIGH PERFORMANCE EPOXY will yellow upon prolonged exposure to sunlight or high intensity artificial lights.
• Although epoxy coatings are chemically resistant, surface staining of the coating may occur after contact with some chemicals. Consider the use of one of Increte’s Urethanes for improved stain resistance.
• In all cases, consult the Material Safety Data Sheet before use.
• Keep out of reach of children.
• For Professional use only.

Warranty

All recommendations, statements and technical data contained herein based on tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty, either expressed or implied. User shall rely on his own information and tests to determine suitability of the product for the intended use and user assumes all risk and liability resulting from his use of the product of this manufacturer which proves to be defective. Neither seller nor manufacturer shall be liable to the buyer or any third person having any injury, loss or damage directly or indirectly resulting from use of or inability to use the product. Recommendations or statements other than those contained in written agreement signed by an officer of the manufacturer shall not be binding upon the manufacturer or seller.

Important Notice: These products are sold subject only to the expressed warranties contained herein. Additional warranties, expressed or implied, and any warranty of merchantability is hereby excluded. Buyer agrees that seller assumes no liability for consequential damages of any kind. Which result from the use or misuse of the merchandise sold hereunder. In the event that the buyer proves that any goods received do not conform to the specifications agreed to between the parties or if the buyer proves that such goods were defectively manufactured, the buyer’s remedies shall be limited to either the return of the goods and repayment of the purchase price or replacement of the non-conforming goods at the option of the seller. Such remedy being exclusive of all others and the sole remedy available to the buyer, hereby expressly waives any claim to additional damages.