

# Durex® Epotel Terrazzo

## Epoxy Resin Binder for Terrazzo Flooring

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|--------------------|---|
| <b>Description</b> | Durex® Epotel Terrazzo is a two-component, pigmented epoxy resin binder for epoxy-based Terrazzo Flooring systems. Durex® Epotel Terrazzo is a low odour, low VOC, chemical resistant, durable and easy to maintain epoxy resin matrix with self-priming capabilities. It is designed as a light-weight replacement to cement based terrazzo systems. Durex® Epotel Terrazzo is formulated to be mixed with a wide variety of mineral and non-mineral aggregates and fillers as part of a decorative Terrazzo Flooring System.                        |
| <b>Uses</b>        | Durex® Epotel Terrazzo is an epoxy-based binder to be used with a variety of decorative mineral and non-mineral fillers/aggregates to create a durable and long-lasting epoxy-based Terrazzo Flooring System. Durex® Epotel Terrazzo is designed for use where an aesthetically pleasing, long lasting floor is needed in high traffic areas.   |
| <b>Ideal For</b>   | <ul style="list-style-type: none"> <li>• Commercial floor areas subject to heavy foot traffic</li> <li>• Research facilities and laboratories</li> <li>• Institutional floors, especially hospitals, transportation concourses and terminals</li> <li>• All decorative, high traffic areas such as building lobbies and entrances</li> </ul>  |
| <b>Features</b>    | <ul style="list-style-type: none"> <li>• Aesthetically Pleasing</li> <li>• Self-Priming</li> <li>• Quick Curing</li> <li>• Abrasion Resistant, Durable Flooring System</li> <li>• Extremely low life cycle costs when compared to other flooring systems</li> <li>• Good chemical and solvent resistance</li> <li>• Excellent adhesion</li> <li>• Low odour, Low VOC</li> <li>• Unlimited Colour Availability</li> <li>• Combine with mineral and non-mineral aggregates for unlimited colour and design</li> <li>• CFIA and USDA Accepted</li> </ul> |

### TECHNICAL DATA

| PHYSICAL PROPERTIES                    |   |
|--|---|
| <b>Colour</b>                          | Pigmented   |
| <b>Coverage</b>                        | 0.3 m <sup>2</sup> /L (12 ft <sup>2</sup> /gal) @ 6mm (¼")<br>0.2 m <sup>2</sup> /L (8 ft <sup>2</sup> /gal) @ 9mm (½") |
| <b>Cure Time @ 23°C (75°F), 55% RH</b> | Before Grinding: 18-24 hours<br>Full Cure: 7 days   |
| <b>Recommended Thickness</b>           | 6mm-9mm (¼"– ½")  |
| <b>Mix Ratio</b>                       | 5:1 by volume (unfilled) - Part A (Resin):Part B (Catalyst)   |
| <b>Pot Life @ 23°C (75°F)</b>          | 45 Minutes  |
| <b>Reducer/Clean-up</b>                | Lacquer thinner or xylene   |

| PERFORMANCE PROPERTIES                  | TEST METHOD   | RESULTS  |
|---|---------------|--|
| <b>Water Absorption</b>                 | ASTM C 413    | 0.03%  |
| <b>Thermal Coefficient of Expansion</b> | ASTM D 969    | 23 x 10 <sup>-6</sup> per in. per °F<br>11 x 10 <sup>-7</sup> per cm. per °C |
| <b>Chemical Resistance</b>              |               | Consult Durabond   |
| <b>Compressive Strength</b>             | ASTM 695-85   | 8,500 psi (58.6 MPa)   |
| <b>Tensile Strength</b>                 | ASTM D 638-86 | 4,500 psi (31 MPa)   |
| <b>Flexural Strength</b>                | ASTM D 790    | 4,800 psi (33 MPa)   |
| <b>Elongation</b>                       | ASTM D638-86  | 6.0%   |
| <b>Flexural Modulus</b>                 | ASTM D 790    | 2.0x10 <sup>5</sup> psi (1,500 MPa)  |
| <b>Abrasion Resistance</b>              | ASTM D4060-90 | 0.030g loss  |
| <b>Mar Resistance</b>                   | ASTM D5178-91 | 1.0 kg   |
| <b>Shore D Hardness</b>                 | ASTM D-2240   | 80 - 85  |

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| <b>Packaging</b>           | Durex® Epotel Terrazzo is packaged in 18.9 L (5 gal) and 3.78 L (1 gal) units. This product is available in multiple standard colours. Custom colour matching can also be attained at an additional cost. Please refer to the <i>Durex® Colour Selection Guide</i> for all available colour options.   |
| <b>Storage Conditions</b>  | Store Durex® Epotel Terrazzo in a dry, vented, waterproof location, stacked off the ground, out of direct sunlight and other detrimental conditions. Store liquid materials in ambient temperatures above 10 degrees C and below 30 degrees C. <b>KEEP FROM FREEZING.</b>  |
| <b>Surface Preparation</b> | Concrete surfaces to be coated are to be prepared to ICRI's CSP 3-4 via shot blasting free of laitance, dust, debris or other materials deleterious to adhesion. Concrete floor must be sound, free of cracks and must not exceed a variation of 6mm over 3m (¼" per 10 feet). Concrete slabs must have a vapour barrier beneath the slab to prevent moisture intrusion. New concrete shall be allowed to cure for a minimum of 28 days and have a compressive strength of concrete of at least 25 MPa (3,625 psi) before coating. Moisture content of the concrete shall be less than 4% by weight prior to application. For applications between 4% and 6% moisture, Durex® Epotel 100 Moisture Block moisture mitigating primer must be installed. For applications below 4% moisture, prime concrete using Epotel Multi-Prime. Contact a Durabond Technical Representative for further assistance.   |
| <b>Mixing Instructions</b> | Durex® Epotel Terrazzo epoxy resin is supplied as a kit based on mixing ratio. Mixing shall be carried out in a clean, rust-free container, and mixed by a power drill at 400-500 rpm maximum using a non-air entraining mixing paddle. Ensure materials have been pre-conditioned to room temperature for best results. Mix five (5) parts by volume of Part 'A' epoxy resin with one (1) part by volume of Part 'B' catalyst. Mix for at least two (2) minutes. Add specified aggregates after mixing Durex® Epotel Terrazzo. Decorative aggregate mixes shall be added in accordance with desired colour and are at the discretion of the applicator. A sample shall be submitted prior to application to confirm aggregate mix design. Do not thin with solvent.   |
| <b>Application</b>         | <p>Prepare a test patch to verify the effectiveness of the preparation process. Apply materials at ambient temperatures above 10 degrees C, however for optimal results install between 16 and 25 degrees Celsius. Apply immediately after mixing, pouring the mixed material matrix onto the floor, spreading and compacting the matrix. For best results apply by using a clean 3" stainless steel trowel. Carefully organize the work with sufficient tradesmen to complete an entire section within divider strips. Avoid stop and start lines within any one section, keeping a wet edge and working in a manner that prevents cold joints. Ensure that the final application of the trowel is in a consistent manner. Coving to be installed using a desired stainless-steel coving trowel.</p> <p>Allow to cure for 18 hours at 23°C prior to grinding. Grind as per desired finish. Durex® Epotel Terrazzo may be sealed for chemical resistance or for aesthetic reasons. Consult Durabond for sealing options.</p> |
| <b>Cleaning</b>            | Wash all tools and equipment immediately after use with lacquer thinner or xylene.   |
| <b>Health and Safety</b>   | Read published safety Data Sheet prior to use and for all further information. Keep out of reach of children. Use appropriate protective equipment and clothing at all times.  |
| <b>Limitations</b>         | Durex® Epotel Terrazzo is to be installed in accordance to moisture tolerances in concrete substrate as per limitations outlined in "Surface Preparation" section. Substrate shall be between 15 and 30 degrees Celsius and must be 3 degrees Celsius above dew point. Ambient relative humidity must be below 85%. Special consideration must be taken to avoid outgassing of concrete during application. Apply at a steady or declining temperature. Do not apply over polymer modified concrete substrates that will be affected when being sealed with an impervious coating. A crack isolation membrane and crack treatment must be taken into consideration for all substrates that may be susceptible to movement, Consult Durabond for further information. Durex® Epotel Terrazzo shall be installed by experienced applicators, consult Durabond.   |
| <b>Warranty</b>            | Durabond warrants this product is free of manufacturing defects, and will replace at no charge, provided it has been applied within 12 months of purchase, it has been installed for uses suitable for this product and in accordance with the manufacturer's instructions.  |
| <b>Technical Services</b>  | Technical support is available upon request at <a href="mailto:info@durabond.com">info@durabond.com</a> . For the latest version of this data sheet, please visit our website at <a href="http://www.durabond.com">www.durabond.com</a> , call toll free at 1-877-DURABOND (387-2266) or speak with your Durabond Technical Coatings Ltd. sales representative.  |



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