

# Durex® Epotel TL

## 100% Solids Epoxy Trowel Liquid & Mortar Binder

<b>Description</b>	Durex® Epotel TL Epoxy Trowel Binder is a two-component, 100% solids, solvent-free, liquid-applied, aggregate-filled binder. It is designed to be mixed with standard or decorative aggregates to provide a high build, tough, durable, abrasion and chemical-resistant coating for interior floor surfaces.
<b>Uses</b>	Durex® Epotel TL Epoxy Trowel Binder is used as a trowel or screed-applied epoxy-based aggregate binder for decorative, self-leveling or trowel-applied flooring systems where high impact and abrasion resistance is required. These systems are to be used in heavy-duty industrial environments, sanitary environments subject to constant cleaning and as an effective repair material for problematic worn concrete floors. May also be used as a penetrating primer.
<b>Ideal For</b>	<ul style="list-style-type: none"> <li>. Loading docks and other warehouse or production floor areas subject to forklift traffic</li> <li>. Mechanical and garbage rooms</li> <li>. Sanitary environments subject to cleaning such as food processing facilities</li> <li>. Pharmaceutical plants and laboratories</li> <li>. Repairs to deteriorated and worn concrete floors</li> <li>. Slurry for epoxy mortar and grouting</li> </ul>
<b>Features</b>	<ul style="list-style-type: none"> <li>. 100% solids, zero VOCs, odorless</li> <li>. CFIA approved, USDA accepted</li> <li>. Low-viscosity epoxy resin with excellent wetting properties for priming and coating</li> <li>. Excellent clarity for use as a finish coat or decorative aggregate binder</li> <li>. Abrasion, chemical and impact resistant</li> <li>. Self-leveling and seamless</li> <li>. High-gloss finish</li> </ul>

### TECHNICAL DATA

PHYSICAL PROPERTIES	
Colour	Clear & Pigmented
Resin Type	Epoxy
Mix Ratio	Part A : Part B 2:1 by volume
Cure Time @ 23°C (75°F)	To recoat: 6 hours To touch: 8 hours Light traffic: 12 hours Fully cured: 5 days
Pot Life – working time @ 23 degrees C	20 – 25 minutes
V.O.C.	Zero

PERFORMANCE PROPERTIES	TEST METHOD	RESULTS
Percent Solids	ASTM D7232-06	100%
Viscosity (Brookfield) 23 degrees C	ASTM D2196, Part A + B	750 (pigmented) – 400 (clear) cps
Compressive Strength	ASTM 695-85	44 MPa (6,370 psi)
Tensile Strength	ASTM 695-85	24 MPa (3,500 psi)
Tensile Modulus	ASTM D638-86	125 MPa (18,150 psi)
Elongation	ASTM D638-86	8%
Flexural Modulus	ASTM D790-86	2.4 MPa (350 psi)
Abrasion Resistance	ASTM D4060-90	0.033
Shore D Hardness		75
Chemical Resistance	Durex® Epotel TL Epoxy Trowel Binder resists damage by chemical reactivity and/or solvent reaction. Contact Durabond Technical Services for additional information.	

<b>Packaging</b>	Durex® Epotel TL Epoxy Trowel Binder is packaged as a kit (Part A and Part B) in 56.7 L (15 gal), 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 TL Epoxy Trowel Binder 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 35 degrees C. <b>KEEP FROM FREEZING.</b>
<b>Surface Preparation</b>	Surfaces to be coated shall be shot blasted, clean, dry, structurally sound and free of laitance, dust, debris or other materials deleterious to adhesion. New concrete and masonry mortar shall be allowed to cure for a minimum of 28 days and to achieve a compressive strength of concrete of at least 25 MPa (3,625 psi) before coating. For best results prepare surfaces by diamond grinding or shot blasting. Apply a coat of Durex® Epotel TL Epoxy Trowel Binder on new concrete surfaces, and/or surfaces which have been previously coated. Treat cracks using Durex® Epotel Crack Filler. Maintain temperature in work areas to receive floor coating at a minimum of 12 degrees C for at least 24 hours before, during, and after applications, and until coatings have cured. Maintain a dust-free atmosphere for duration of work. Erect suitable barriers to prevent through traffic or other trades from entering working area during installation of floor coating and protect adjacent surfaces from damage.
<b>Mixing Instructions</b>	Mixing shall be carried out in a clean, rust-free container, and mixed by a power drill at 400-500 rpm maximum. Mix two (2) parts by volume of Part A with one (1) part by volume of Part B. Blend the mixture for at least two (2) minutes. Durex® Epotel TL Epoxy Trowel Binder must be applied immediately for best working time and results.
<b>Application</b>	Durex® Epotel TL Epoxy Trowel Binder is designed as a binder matrix for use in protective coating systems or as a patching compound for decorative, self-leveled or trowel-applied flooring systems. Prepare a test patch in order to verify the effectiveness of the cleaning process and to check product adhesion to prepared surfaces.  <b>Primer:</b> Apply by brush or roller at a coverage rate of 4 m <sup>2</sup> /L. Apply a uniform coating with several passes to ensure complete coverage.  <b>Self-Leveling Systems:</b> Mix Durex® Epotel TL Epoxy Trowel Binder at a ratio of 50 lbs of sand to 3 gal of mixed epoxy slurry (2 gal Part A to 1 gal Part B). Pour the self-leveling slurring across prepared floors and spread using a pin rake, squeegee or roller to a nominal wet film thickness of 1.5 mm (1/16 inch) to 3 mm (1/8 inch). Finish the system application using a steel trowel to smooth and level the surface. Back-roll with a nylon roller to smooth coating.  <b>Trowel Applied:</b> Mix Durex® Epotel TL Epoxy Trowel Binder at a ratio of 100 lbs of sand to 1.5 gal of mixed epoxy slurry (1 gal Part A to 1/2 gal Part B). Pour the mixture and spread across prepared floors using a trowel to a nominal wet film thickness of 4.5 mm (3/16 inch) to 6 mm (1/4 inch). Finish the system application using a steel trowel to smooth and level the surface. Back-roll with a nylon roller to smooth coating.  <b>Top Coat:</b> Optional top coats available.
<b>Clean-up</b>	Clean tools and equipment immediately with solvent reducers.
<b>Maintenance</b>	Regular cleaning will maintain these systems in serviceable condition. However, certain textures and service environments require specific procedures. Contact Durabond Technical Services for further information.
<b>Health and Safety</b>	Use under well-ventilated conditions with appropriate respirator approved for organic vapours and rubber gloves when handling the product. Avoid contact with eyes and prolonged contact with skin. If contact occurs, flush immediately with water and seek medical attention if irritation occurs. Harmful if swallowed. Do not induce vomiting. Drink 1-2 glasses of water or milk. Keep product out of reach of children. Read published Material Safety Data Sheet for additional information.
<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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