

Durex® Epotel 1000

High Performance Water Clear Epoxy Resin and Binder

- Description** Durex® Epotel 1000 is superior quality, water clear, 100% solid, low odour, low VOC and high gloss epoxy binder and top coat. Durex® Epotel 1000 is design to use for Durex decorative system as binder and top coat where highest level of aesthetics is required. Durex® Epotel 1000 is resistant to changes in clarity, making it ideal for decorative flooring applications. Durex® Epotel 1000 is to be used for a variety of decorative systems such as Durex® Dur-A-Metallic, Dur-A-Quartz, Dur-A-Flake, Dur-A-Glitter and Dur-A-Granit systems.
- Uses** Durex® Epotel 1000 is used as a clear binder and high-performance epoxy topcoat in decorative floor system applications. The excellent clarity and clarity retention makes it idea to be used in conjunction with flooring systems that utilize decorative quartz, flake, metallic and like elements.
- Ideal For**
- Showers, locker rooms and wash-down areas
 - Commercial areas / Grocery stores / Laboratories / Hallways / Offices
 - Recreational facilities
 - Public institutions and buildings
- Features**
- Water clear
 - Self-leveling and seamless
 - Self-priming
 - Slower curing, easy to use
 - Good hardness
 - Good chemical and solvent resistance
 - Excellent adhesion
 - Very low odour
 - Blushing-free properties
 - Low viscosity
 - Good resistance to yellowing
 - Formulated using high-quality resins: Bisphenol A/F Epoxy / Cycloaliphatic Amine

TECHNICAL DATA

PHYSICAL PROPERTIES

Colour	Clear
Coverage	4 m ² /L (160 ft ² /gal) @ 10 mils DFT – <i>Varies depending on System</i>
Cure Time @ 23°C (75°F), 55% RH	To touch: 10 hours Light traffic: 12 hours Fully cured: 72 hours
Recommended Film Thickness	10-20 mils DFT - <i>Varies depending on System</i>
Mix Ratio	2:1 by volume
Part A (Resin): Part B (Catalyst)	
Pot Life @ 23°C (75°F)	30 – 35 minutes
Reducer/Clean-up	Lacquer thinner or xylene

PERFORMANCE PROPERTIES

PERFORMANCE PROPERTIES	TEST METHOD	RESULTS
Percent Solids	ASTM D7232-06	100% (volume – clear)
Viscosity (Brookfield) 23°C (75°F), A+B	ASTM D2196	500 cps Clear
V.O.C.	ASTM D3960-05	Zero
Specific Gravity (Part A + B)	ASTM D333	1.07 ± 0.01 g/L 8.90 ± 0.1 lb/gal
Compressive Strength	ASTM 695-85	8,500 psi (58.6 MPa)
Tensile Strength	ASTM 695-85	1,850 psi (12.8 MPa)
Tensile Modulus	ASTM D638-86	480 psi (12.8 MPa)
Elongation	ASTM D638-86	8.0%
Flexural Modulus	ASTM D790-86	490 psi (3.4 MPa)
Abrasion Resistance	ASTM D4060-90	0.030g loss
Mar Resistance	ASTM D5178-91	1.0 kg
Shore D Hardness		75

Packaging	Durex® Epotel 1000 Epoxy resin binder and top coat is packaged in 18.9 L (5 gal) and 3.78 L (1 gal) units.
Storage Conditions	Store Durex® Epotel 1000 Epoxy resin binder and top coat 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. KEEP FROM FREEZING.
Surface Preparation	Concrete surfaces to be coated must be shot-blasted, free of laitance, dust debris or other materials deleterious to adhesion. 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 or the substrate must be primed with Durex® Epotel 100 Moisture Block. Contact a Durabond Technical Representative for further assistance. Prepare surfaces to achieve a surface consistent with ICRI CSP 3. Apply a coat of Durex® Epotel Multi-Prime 100% Solids Epoxy Primer on new concrete surfaces, and/or surfaces which have been previously coated. Treat cracks using Durex® Epotel Joint & Crack Filler. Maintain temperature in work areas to receive floor coating at a minimum of 10 degrees C for at least 24 hours before, during, and until coatings have fully cured. Provide adequate ventilation where flooring is being applied. Maintain a dust-free environment for duration of work. Erect suitable barriers to prevent through traffic or other trades from entering working area during installation of floor coating and to protect adjacent surfaces from damage. Always refer to respective decorative flooring system TDS sheet for proper surface preparation requirements. Contact Durabond Technical Services for information.
Mixing Instructions	Durex® Epotel 1000 Epoxy resin binder and top coat 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. Mix two (2) parts by volume of Part 'A' epoxy resin with one (1) part by volume of Part 'B' amine binder. Mix for at least two (2) minutes. Durex® Epotel 1000 Epoxy resin binder and top coat must be applied immediately for best working time and results.
Application	Prepare a test patch to verify the effectiveness of the cleaning process and to check product adhesion to the surface. Apply materials at ambient temperatures above 10 degrees C. Applied in accordance to related decorative system by roller, squeegee or trowel or means deemed necessary by the respective decorative flooring system. Always refer to the TDS sheet of the decorative system for mixing and application instructions. Carefully organize the work with sufficient tradesmen to complete an entire section at natural break points. Avoid stop and start lines within any one section. Ensure that the final stroke of the application method is consistent and in the same direction and with the same pressure applied.
Clean-Up	Wash all tools and equipment immediately after use with mineral spirits.
Health and Safety	Use under well-ventilated conditions with proper protective equipment when handling and using 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. Keep product out of reach of children. Read published Safety Data Sheet prior to handling, storage and use.
Warranty	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.
Technical Services	Technical support is available upon request at info@durabond.com . For the latest version of this data sheet, please visit our website at www.durabond.com , call toll free at 1-877-DURABOND (387-2266) or speak with your Durabond Technical Coatings Ltd sales representative.



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