

Durex® Epotel 100 GSA

Industrial/Commercial Concrete Epoxy Floor Coating

Description	Durex® Epotel 100 GSA Industrial/Commercial Concrete Epoxy Floor Coating is a two-component, solvent-free 100% solids epoxy concrete floor coating.
Uses	Durex® Epotel 100 GSA Industrial/Commercial Concrete Epoxy Floor Coating is an ideal, versatile epoxy floor coating for use in industrial and warehouse facilities.
Ideal For	<ul style="list-style-type: none"> . Commercial floor areas subject to light-to-medium foot traffic . Food processing plants, pharmaceutical plants and laboratories . Industrial floors or other environments requiring clean, sanitary conditions . Warehouse floors . Light-to-medium industrial and manufacturing applications
Features	<ul style="list-style-type: none"> . 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 . Very good resistance to nitric acid . Formulated using high-quality resins: Bisphenol A/F Epoxy / Cycloaliphatic Amine

TECHNICAL DATA

PHYSICAL PROPERTIES

Colour	Clear and Pigmented
Coverage	4 m ² /L (160 ft ² /gal) @ 10 mils DFT
Cure Time @ 23°C (75°F), 55% RH	To touch: 10 hours Light traffic: 12 hours Fully cured: 72 hours
Recommended Film Thickness	16-18 mils DFT
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	750 cps Clear 850 cps Pigmented
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 100 GSA Industrial/Commercial Concrete Epoxy Floor Coating is packaged in 18.9 L (5 gal) and 3.78 L (1 gal) units. This product is available in clear and 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.
Storage Conditions	Store Durex® Epotel 100 GSA Industrial/Commercial Concrete Epoxy Floor Coating 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. Contact Durabond Technical Services for information.
Mixing Instructions	Durex® Epotel 100 GSA Industrial/Commercial Concrete Epoxy Floor Coating 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 100 GSA Industrial/Commercial Concrete Epoxy Floor Coating 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. Apply by roller and/or squeegee. For best results, apply by squeegee followed by back-rolling. 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 roller is always in the same direction and with the same pressure applied to the roller. Recommend to apply material along perimeter edges with 75 mm (3 inch) - 100 mm (4 inch) wide synthetic brush, followed by a lint-free 12 mm (1/2 inch) pile roller. Maintain a wet edge to prevent overlap marks and gloss differences. This product is designed as a two-coat system (first coat: 5-7 mils Primer; second coat: 12 mils).
Clean-Up	Wash all tools and equipment immediately after use with mineral spirits.
Health and Safety	Use under well-ventilated conditions with 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.
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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