

Durex® Epotel 100 GSC

High-Performance Smooth Epoxy Floor Coating

Description	Durex® Epotel 100 GSC High-Performance Smooth Epoxy Floor Coating is a two-component, 100% solids, solvent-free, liquid-applied epoxy floor coating. It is designed to provide a high-build, tough, durable, abrasion- and chemical-resistant coating for interior concrete floor surfaces.
Uses	Durex® Epotel 100 GSC Epoxy Floor Coating is a roller- or squeegee-applied general service floor coating used as an interior protective coating in medium- to heavy-duty commercial and medium- to heavy-duty industrial floor applications.
Ideal For	<ul style="list-style-type: none"> · Commercial floor areas subject to medium to heavy foot traffic · Food processing plants, pharmaceutical plants and laboratories · Industrial floors or other environments requiring clean, sanitary conditions · Retail stores, office buildings, hotels, casinos, restaurants, entertainment venues, lobbies or any interior area where a durable concrete surface is required · Medium- to heavy-duty industrial and manufacturing applications
Features	<ul style="list-style-type: none"> · High-quality epoxy floor coating · 100% solids, zero VOCs, odorless · CFIA approved, USDA accepted · Easy-to-apply, self-leveling properties · Chemical and abrasion resistant · Blush-resistant, pigmentable high-gloss finish · Excellent coverage, seamless finish · Available in low temperature cure formulation for faster turnaround

TECHNICAL DATA

PHYSICAL PROPERTIES	
Colour	Please see <i>Durex® Colour Selection Guide</i> for available colour options.
Resin Type	Epoxy
Coverage	4 m ² /L (160 ft ² /gal) @ 10 mils DFT per coat, Note: 2 coats required; Total thickness: 16-18 mils DFT
Mix Ratio	Part A : Part B 2:1 by volume
Cure Time @ 23°C (75°F)	To touch: 6-7 hours Light traffic: 12 hours Fully cured: 7 days
Pot Life – working time @ 23°C (75°F)	20-25 minutes
V.O.C.	Zero

PERFORMANCE PROPERTIES	TEST METHOD	RESULTS
Percent Solids	ASTM D7232-06	100%
Viscosity (Brookfield) 23-30°C (75-85°F)	ASTM D2196, Part A + B	1,600 cps (pigmented) 1,000 cps (clear)
Specific Gravity	ASTM D333	1.33 +/- 0.01 g/L (Pigmented) 1.10 +/- 0.01 g/L (Clear)
Compressive Strength	ASTM 695-85	75 MPa (10,900 psi)
Tensile Strength	ASTM 695-85	14.35 MPa (2,080 psi)
Tensile Modulus	ASTM D638-86	3.3 MPa (480 psi)
Elongation	ASTM D638-86	8.0%
Flexural Modulus	ASTM D790-86	3.8 MPa (556 psi)
Abrasion Resistance	ASTM D4060-90	0.033
Mar Resistance	ASTM D5178-91	1.5 kg
Shore D Hardness		88
60° Specular Gloss		110
Chemical Resistance	Durex® Epotel 100 GSC High-Performance Smooth Epoxy Floor Coating resists damage by chemical reactivity and/or solvent reaction. Contact Durabond Technical Services for additional information.	

Packaging	Durex® Epotel 100 GSC High-Performance Smooth Epoxy Floor Coating is packaged as a kit based on mixing ratios (Part A & B) in 56.7 L (15 gal), 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 GSC 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 by 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 GSC High-Performance Smooth 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 GSC High-Performance Smooth 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. Application thickness: 20 mils DFT total.
Cleaning	Clean tools and equipment immediately with solvent reducers.
Maintenance	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.
Health and Safety	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.
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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