

Durex® Epotel 100 CR

Chemical-Resistant Epoxy Floor Coating

Description	Durex® Epotel 100 CR Chemical Resistant Epoxy Floor Coating is a two-component, 100% solids, solvent-free, liquid applied epoxy floor coating. It is formulated to perform as a resilient industrial floor coating with increased chemical resistance to protect concrete and steel from corrosive chemicals
Uses	Durex® Epotel 100 CR Chemical-Resistant Epoxy Floor Coating is a roller- or brush-applied protective coating designed for interior use in industrial applications where aggressive chemicals are present. This product may also be used as the chemical barrier in secondary containment beds.
Ideal For	<ul style="list-style-type: none"> • Emergency generator rooms • Battery storage rooms • Mechanical equipment and garbage rooms • Pharmaceutical plants, laboratories and food processing plants • Water treatment facilities • Petrochemical refineries • Warehouse and production floor areas
Features	<ul style="list-style-type: none"> • 100% solids, zero VOCs, odorless • CFIA approved, USDA accepted • Fast setting, easy to apply • Excellent chemical-resistance properties • Abrasion and impact resistant • Blush resistant, high-gloss finish

TECHNICAL DATA

PHYSICAL PROPERTIES	
Colour	Please see <i>Durex® Colour Selection Guide</i> for available colour options.
Coverage	4 m ² /L (160 ft ² /gal) @ 10 mils DFT per coat Note: 2 coats recommended for best results
Mix Ratio	Part A (Resin) : Part B (Hardener) 2:1 by volume
Recommended Film Thickness	20 mils
Cure Time @ 23 degrees C	To touch: 4.5 hours
Regular Cure	Light traffic: 15 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%, solvent-free
Viscosity (Brookfield) 23°C	ASTM D2196, Part A + B	1,500-1,800 (pigmented) – 1,000 (clear) cps
Specific Gravity	ASTM D333	1.07 ± 0.01 g/L 8.90 ± 0.1 lb/gal
Compressive Strength	ASTM 695-85	80.6 MPa (11,700 psi)
Tensile Strength	ASTM 695-85	61 MPa (8,900 psi)
Tensile Modulus	ASTM D638-86	3.26 MPa (474 psi)
Elongation	ASTM D638-86	4.8%
Flexural Modulus	ASTM D790-86	3.6 MPa (525 psi)
Abrasion Resistance	ASTM D4060-90	0.033
Mar Resistance	ASTM D5178-91	1.5 kg
Shore D Hardness		85
Chemical Resistance	Durex® Epotel 100-CR Chemical-Resistant Epoxy Floor Coating has the ability to resist damage by chemical reactivity or solvent action. Contact Durabond for more information on chemical resistance of specific materials and compounds.	

Packaging	Durex® Epotel 100 CR Chemical-Resistant Epoxy Floor Coating is packaged 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.
Storage Conditions	Store Durex® Epotel 100 CR Chemical-Resistant 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	Surfaces to be coated are to be prepared to ICRI CSP 3. For best results, the surface shall be shot blasted 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. 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 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 after application, 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.
Mixing Instructions	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 resin with one (1) part by volume of Part B catalyst. Blend the mixture for at least two (2) minutes. Durex® Epotel 100 CR Chemical-Resistant Epoxy Floor Coating must be applied immediately for best working time and results.
Application	Prepare a test patch to verify product adhesion to the prepared surface. Apply materials at ambient temperatures above 10 degrees C by squeegee at a coverage rate of 4 m ² /L followed by back-rolling (2 coats at 10 mils/coat). 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. Spread with a squeegee. Back-roll with a lint-free 12 mm (1/2 inch) pile roller. Maintain a wet edge to prevent overlap marks and gloss differences.
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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