

Durex® Epotel 100 GSC – Cold Cure

High-Performance Smooth Epoxy Floor Coating for Cold Temperature Applications

Applications

Description	Durex® Epotel 100 GSC – Cold Cure is a two-component, 100% solids, solvent-free, fast-curing liquid-applied epoxy floor coating. It is designed to provide a high-build, tough, durable, abrasion- and chemical-resistant coating for low temperature interior concrete floor surfaces.
Uses	Durex® Epotel 100 GSC – Cold Cure is a roller- or squeegee-applied floor coating used as an interior protective coating in cold temperature applications.
Ideal For	<ul style="list-style-type: none"> · Cold temperature applications · Food processing plants, pharmaceutical plants and laboratories · Industrial floors or other environments requiring clean, sanitary conditions · Light-to-medium industrial, commercial and manufacturing applications
Features	<ul style="list-style-type: none"> · 100% solids, zero VOCs, odourless · Applicable down to 4 degrees Celsius · CFIA approved, USDA accepted · Easy to apply, self-leveling properties · Chemical and abrasion resistant · Blush-resistant, pigmentable high-gloss finish · Excellent coverage, seamless finish

TECHNICAL DATA

PHYSICAL PROPERTIES

Colour	Clear and Pigmented
Resin Type	Epoxy
Coverage	4 m ² /L (160 ft ² /gal) @ 10 mils DFT Note 2 coats required; total thickness: 10 mils per coat
Mix Ratio	Part A : Part B 2:1 by volume
Cure Time @ 23°C (75°F)	To touch: 1-2 hours Light traffic: 6 hours Vehicular traffic: 8 hours Fully cured: 7 days
Cure time @ 5°C (41°F)	To touch: 6 hours Light traffic: 24 hours Vehicular traffic: 36 hours Fully cured: 14 days
Pot Life – working time @ 23°C (75°F)	5 – 10 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 1,500 (pigmented) – 1,000 (clear) cps
Compressive Strength	ASTM 695-85 75 MPa (10,900 psi)
Tensile Strength	ASTM 695-85 61 MPa (8,900 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 – Cold Cure resists damage by chemical reactivity and/or solvent reaction. Contact Durabond Technical Services for additional information.

Packaging	Durex® Epotel 100 GSC – Cold Cure 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 – Cold Cure 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 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. Power wash and allow surfaces to thoroughly dry prior to applications. Treat cracks using Durex® Epotel Crack Filler. Maintain temperature in work areas to receive floor coating at a minimum of 4 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 – Cold Cure 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 – Cold Cure must be applied coldly and immediately poured onto the floor after mixed. Prepare in small batches 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 4 degrees C. Do not apply in temperatures above 15 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 work quickly 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.
Clean-Up	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 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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