

Durex® Epoxy Guard

High-Gloss, Water-Based Epoxy Concrete Floor & Wall Coating

Description	Durex® Epoxy Guard is an extended pot life, easy-to-use, water-based, two-component high-gloss epoxy floor and wall coating. It is specially formulated to protect interior walls and floors.
Uses	Durex® Epoxy Guard is a versatile, hard-wearing protective coating for walls and floors typically used as a protective interior wall coating for concrete and drywall in high-traffic applications that are not exposed to UV rays. Mainly for use in institutional and industrial applications. Also can be used as a protective coating for metal.
Ideal For	<ul style="list-style-type: none"> • Wall coating for hospitals, medical buildings, labs and a variety of institutional applications • School and educational facilities • Pharmaceutical applications • Garage and basement floors • Maintenance coating for doors, railings, etc.
Features	<ul style="list-style-type: none"> • Easy applications; self-leveling, flow and microform-free properties • Extended open time • Water based, non-corrosive, non-regulated • Very low VOCs and very low odour • Versatile, long-lasting decorative finish • Superior adhesion to wide variety of substrates • High solids, one-coat system, excellent coverage • Contains ceramic particles for excellent scrubability and abrasion resistance • Non-flammable • Excellent resistance to motor oil • Hot rubber tire pick-up resistant

TECHNICAL DATA

PHYSICAL PROPERTIES	
Colour	Please see <i>Durex® Colour Selection Guide</i> for available colour options.
Resin Type	Water-based epoxy
pH Level	8.0 – 9.0
Coverage	8 m ² /L (350 ft ² /gal) @ 3 mils DFT per coat Note: 2 coats recommended for best results
Cure Time @ 23°C (75°F)	To touch: 10-14 hours Light traffic: 28 hours Fully cured: 7 days
Mix Ratio	1:3 by volume
Part A (Resin):Part B (Catalyst)	
Induction Period	30-60 minutes
Pot Life	3-4 hours
Reducer/Clean-Up	Water

PERFORMANCE PROPERTIES	TEST METHOD	RESULTS
Percent Solids	ASTM D7232-06	65 ± 2% (vol.)
Viscosity (Brookfield) 23°C (75°F)	ASTM D2196	50-85 KU
V.O.C.	ASTM D3960-05	<25 g/L
Specific Gravity	ASTM D333 (Part A+B)	1.10 ± 0.05 g/L 9.0 ± 0.3 lb/gal
Abrasion Resistance	ASTM 5178-91	85 mg/1000 cycles
Pencil Hardness	ASTM D3363	H-HB
Flow Out (cm)		15.00 (50 x 25 mm disc; 2 min flow out)

Packaging	Durex® Epoxy Guard Retail Grade Water-Based Epoxy Concrete Floor Coating is packaged in 18.9 L (5 gal) and 3.78 L (1 gal) pails. 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® Epoxy Guard Retail Grade Water-Based Epoxy Concrete 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	Mechanical surface preparation, sanding or grinding to remove materials deleterious to adhesion is recommended. Allow surfaces to thoroughly dry prior to applications. Fill cracks and holes, and retool mortar joints to provide a smooth uniform surface. Fresh concrete must be cured for at least 28 days before coating. Prior to the application, ensure surface is clean and free of any contaminants. Ensure the concrete surface is free of moisture. To test, cover an area measuring 1 m x 1 m (3 in. x 3 in.) with a plastic sheet sealed at the edges with duct tape. Do not paint if after 24 hours water droplets appear on the inside of the plastic or concrete appears darker. If concrete has been previously sealed, remove the coating by mechanical abrasion such as shot-blasting. Sealed concrete is often glossy in appearance. Previously painted surfaces should be properly and tightly bonded to substrate below. Otherwise, it must be removed either mechanically or chemically using an effective paint stripper. Hard and glossy surfaces must be abraded to improve adhesion of epoxy coating. The floor must be completely cleaned, rinsed and dried; otherwise the paint may not bond properly to the surface.
Mixing Instructions	Pour Part "A" into Part "B" and stir thoroughly. Mix only one kit of Durex® Epoxy Guard Retail Grade Water-Based Epoxy Concrete Floor Coating at a time. Mix the two parts together for approximately one minute using an electric mixer, or three minutes by hand using a stir stick. An induction period is required. Allow the product to stand covered for at least 30 minutes. The mixture will start to react and the liquid will thin down. Once mixed, product will last 2 to 3 hours depending on surrounding temperature.
Application	<p>THOROUGHLY MIX PRIOR TO USE. DO NOT DILUTE WITH WATER OR OTHER ADDITIVES.</p> <p>Prepare a test patch to verify the effectiveness of the cleaning process, and to check product adhesion to the surface. Use a good-quality synthetic brush (75-100 mm [3-4 in.] brush length) to paint edges of floor where it meets the walls. Then use a lint-free 12.7 mm (1/2 in.) nap roller over and 230 mm (9 in.) frame to apply an even coat of Durex® Epoxy Guard. Maintain a wet edge to prevent overlap marks and gloss differences. If applying the optional paint chips, apply the coating in 1.2 m x 1.2 m (4 ft. x 4 ft.) sections so that the chips can be applied easily. Broadcast the decorative paint chips evenly onto the wet painted surface. Immediately continue to coat the next section. Durex® Epoxy Guard can be applied over loose chips that fall outside of the previously painted area. Note: This step can be skipped if chips are not used or replaced by quartz. This will not affect the performance of the coating.</p> <p>Durex® Epoxy Guard is designed as a two-coat system. Do not let the mixed Epoxy Guard Pro stand for more than 2 hours. If product is used beyond the recommended pot life, paint may appear to have uneven gloss and colour, with an increase in viscosity.</p>
Clean-Up	Wash all tools and equipment immediately after use with warm water and mild detergent.
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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