

Durex® Uraflex 100

100% Solids Urethane Flexible Industrial Floor Coating

Description	Durex® Uraflex 100 Flexible Industrial Floor Coating is a 100% solids, two-component polyurethane protective industrial floor coating typically used in combination with anti-slip aggregates for a textured finish. It is specially formulated to perform where low temperature, flexibility, abrasion and chemical resistance are required. This product has excellent chemical properties which make it an extremely versatile coating that outperforms standard epoxy coatings in regards to flexibility and abrasion resistance.
Uses	Durex® Uraflex 100 Flexible Industrial Floor Coating is used in a variety of interior protective floor-coating applications. To be used in combination with an anti-slip aggregate for a textured finish. Also used as a protective wall coating.
Ideal For	<ul style="list-style-type: none"> Industrial floor coating Healthcare and Hospitals Food processing and pharmaceutical plants Protective Wall Coating
Features	<ul style="list-style-type: none"> Excellent adhesion to a variety of substrates Outstanding stability at low temperatures Excellent moisture resistance Bonds to metal Orange peel finish Extremely Abrasion resistant Penetrates and seals the surface Can be applied on walls > 250 microns thickness Canadian Food Inspection Agency approved, USDA accepted

TECHNICAL DATA

PHYSICAL PROPERTIES

Colour	Pigmented
Mix Ratio	Part A (Resin):Part B (Urethane) Mix as per kit
Cure Time @ 23°C (75°F)	To touch: 6 hours To recoat: 6 hours To traffic: 48 hours Fully cured: 4 days
Coverage	4 m ² /L (160 ft ² /US gal) @ 10 mils
Recommended Film Thickness	5 mils (75 microns) min to 20 mils (500 microns) max
Pot Life – working time @ 23°C (75°F)	20 minutes
Reducer/Clean-up	Lacquer thinner or IPA
V.O.C.	Zero

PERFORMANCE PROPERTIES

PERFORMANCE PROPERTIES	TEST METHOD	RESULTS
Percent Solids	ASTM D7232-06	100%
Viscosity (Brookfield) 23°C (75°F)	ASTM D2196	2,500 cps
Abrasion Resistance	ASTM 5178-91, CS-17 wheel	20 mg loss @ 1000 g load, 1000 cycles
Tensile Strength	ASTM D412	2,700 psi
Specific Gravity	ASTM D333	1.1-1.2 g/L (8.9-10 lb/gal)
Elongation	ASTM D412	45%
Low Temperature Flexibility	1/8" Mandrel Bend @ -26C	Pass
Tear Strength	ASTM D624 Die C	171 lb./in. inch (30KN/linear metre)
Adhesion to Concrete	ASTM C794	> 350 psi (2.4 MPa): Concrete Fails
Shore Hardness A	ASTM C661-83	95
Water Swelling	6 hours	0.05 (max % weight gain)
Water Vapour Transmission	ASTM E96 – Procedure B	0.05 grain/hr·pi ² 0.029 g/hr·m ²
Water Vapour Permeability	ASTM E96	0.20 Perm In. 0.0025 ng/Pa·s·m ²
Water Vapour Permeance	ASTM E96	4.70 x 10 – 5 perm 0.028 ng/Pa·s·m ²

Packaging	Durex® Uraflex 100 is packaged in 18.9 L (5 gal) and 3.78 L (1 gal) kits. 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® Uraflex 100 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 30 degrees C. KEEP FROM FREEZING.
Surface Preparation	Surfaces to be coated shall be shot-blasted and clear of debris or other materials deleterious to adhesion. New concrete and masonry mortar shall be allowed to cure for a minimum of 28 days with the compressive strength of concrete to be at least 25 MPa (3, 625 psi) before coating. Clean surfaces with a wire brush and/or power washer to remove dirt, loose materials and debris. Allow surfaces to thoroughly dry prior to applications. Treat static cracks and shallow repairs with Durex® Dur-A-Patch RS-45, use Durex® Duracrete Trowel to repair deep areas. Maintain temperature in work areas to receive floor coating at a minimum of 12 degrees C for at least 24 hours before application, during application, and until coatings have fully cured. 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.
Mixing Instructions	Durex® Uraflex 100 is supplied in 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 as per kit supplied: Part 'A' resin with Part 'B' curative. Mix for at least two (2) minutes. Durex® Uraflex 100 Flexible Industrial Floor Coating must be applied within fifteen (15) minutes for best results. Note: DO NOT MIX PART 'A' RESIN WITH PART 'B' URETHANE UNTIL YOU ARE READY TO BEGIN APPLICATION.
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 12 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. Durex® Uraflex 100 is recommended for use in combination with anti-slip aggregates for a textured finish. Broadcast anti-slip aggregate into wet coating as required. Consult Durabond for anti-slip levels and application instructions. Can be spray applied for vertical and over-head applications. Consult Durabond for further instructions. Note: Durex® Uraflex 100 Flexible Industrial Floor Coating is a polyurethane-based coating. Polyurethane coatings are sensitive to ultraviolet rays. All exterior applications must be topcoated or sealed with a UV-resistant coating.
Clean-Up	Wash all tools and equipment immediately with warm water and mild detergent. Allow any unused product to harden in container and discard according to local regulations.
Health and Safety	Read published Safety Data Sheet prior to storage, handling or use. Wear necessary protective clothing during handling, mixing, use and storage. Avoid contact with eyes and prolonged contact with skin. Extremely Harmful if swallowed. Keep product out of reach of children.
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.



HEAD OFFICE
55 Underwriters Road
Scarborough, ON M1R 3B4
T 416.759.4474 F 416.759.4470

MISSISSAUGA
6178 Netherhart Road
Mississauga, ON L5T 1B7
T 905.565.9283 F 905.565.9365

EDMONTON
14604 124th Avenue
Edmonton, AB T5L 3B3
T 780.451.6364 F 780.453.9056