

# 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. It is specially formulated to perform where low temperature, flexibility and chemical resistance are required. This product has excellent chemical properties which make it an extremely versatile coating that outperforms standard epoxy coatings.

**Uses** Durex® Uraflex 100 Flexible Industrial Floor Coating is used in a variety of interior protective floor-coating applications.

- Ideal For**
- Industrial floor coating
  - Pipe line coating
  - Tank coating
  - Food processing and pharmaceutical plants
  - Primer for wood

- Features**
- Excellent adhesion to a variety of substrates
  - Outstanding stability at low temperatures
  - Zero VOC, 100% solid urethane
  - Excellent moisture resistance
  - Bonds to metal
  - Smooth, bubble-free film surface
  - 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

<b>Colour</b>	Clear and Pigmented
<b>Mix Ratio</b>	Part A (Resin):Part B (Urethane) 3.5:1 by volume
<b>Cure Time @ 23°C (75°F)</b>	To touch: 6 hours To recoat: 6 hours To traffic: 48 hours Fully cured: 4 days
<b>Coverage</b>	4 m <sup>2</sup> /L (150 ft <sup>2</sup> /US gal) @ 10 mils
<b>Recommended Film Thickness</b>	5 mils (75 microns) min to 16 mils (400 microns) max
<b>Pot Life – working time @ 23°C (75°F)</b>	15 minutes
<b>Reducer/Clean-up</b>	Lacquer thinner or IPA
<b>V.O.C.</b>	Zero

#### PERFORMANCE PROPERTIES

#### TEST METHOD

#### RESULTS

<b>Percent Solids</b>	ASTM D7232-06	100%
<b>Viscosity (Brookfield) 23°C (75°F)</b>	ASTM D2196	2,500 cps
<b>Abrasion Resistance</b>	ASTM 5178-91, CS-17 wheel	20 mg loss @ 1000 g load, 1000 cycles
<b>Tensile Modulus</b>	ASTM D695-85	1,850 psi (12.1 MPa) @ 23°C
<b>Specific Gravity</b>	ASTM D333	1.1-1.2 g/L (8.9-10 lb/gal)
<b>Elongation</b>	ASTM D638-86	45%
<b>Low Temperature Flexibility</b>	1/8" Mandrel Bend @ -26C	Pass
<b>Tear Strength</b>	ASTM D624 Die C	171 lb./in. inch (30KN/linear metre)
<b>Adhesion to Concrete</b>	ASTM C794	> 350 psi (2.4 MPa): Concrete Fails
<b>Shore Hardness A</b>	ASTM C661-83	95
<b>Water Swelling</b>	6 hours	0.05 (max % weight gain)
<b>Water Vapour Transmission</b>	ASTM E96 – Procedure B	0.05 grain/hr·pi <sup>2</sup> 0.029 g/hr·m <sup>2</sup>
<b>Water Vapour Permeability</b>	ASTM E96	0.20 Perm In. 0.0025 ng/Pa·s·m <sup>2</sup>
<b>Water Vapour Permeance</b>	ASTM E96	4.70 x 10 – 5 perm 0.028 ng/Pa·s·m <sup>2</sup>

<b>Packaging</b>	Durex® Uraflex 100 is packaged in 75.6 L (20 gal), 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.
<b>Storage Conditions</b>	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 5 degrees C and below 35 degrees C. <b>KEEP FROM FREEZING.</b>
<b>Surface Preparation</b>	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 cracks using Durex® Epotel 100 Joint and Crack Filler. Maintain temperature in work areas to receive floor coating at a minimum of 10 degrees C for at least 24 hours before application, during application, 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.
<b>Mixing Instructions</b>	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 three and a half (3.5) parts by volume of Part 'A' resin with one (1) part by volume of Part 'B' urethane. Mix for at least one (1) minute. Durex® Uraflex 100 Flexible Industrial Floor Coating must be applied within fifteen (15) minutes for best results. <b>Note:</b> DO NOT MIX PART 'A' RESIN WITH PART 'B' URETHANE UNTIL YOU ARE READY TO BEGIN APPLICATION.
<b>Application</b>	ALWAYS WEAR PROTECTIVE GLOVES AND SPLASH-RESISTANCE GOGGLES. APPLY IN WELL-VENTILATED AREA. AVOID INHALING AND DIRECT SKIN CONTACT. WASH YOUR HANDS AFTER APPLICATION WITH SOAP AND WARM WATER. It is recommended to prepare a test patch to verify product adhesion to the surface. Use a good-quality synthetic brush (75-100 mm, 3-4 in. brush length) to paint edges where the floor meets the walls. Then use a lint-free 12.7 mm (1/2 in.) nap roller cover and 230 mm (9 in.) squeegee to apply an even coat of Durex® Uraflex 100 Flexible Industrial Floor Coating. Maintain a wet edge to prevent overlap marks and gloss differences. (Durex® Uraflex 100 can also be spray-applied using plural-component spray equipment.)  <b>Note:</b> 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.
<b>Clean-Up</b>	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.
<b>Health and Safety</b>	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.
<b>Warranty</b>	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.
<b>Technical Services</b>	Technical support is available upon request at <a href="mailto:info@durabond.com">info@durabond.com</a> . For the latest version of this data sheet, please visit our website at <a href="http://www.durabond.com">www.durabond.com</a> , call toll free at 1-877-DURABOND (387-2266) or speak with your Durabond Technical Coatings Ltd sales representative.

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