

# Durex® Durathane 90

## Non-Yellowing UV-Resistant Polyurethane Coating

<b>Description</b>	Durex® Durathane 90, Non-Yellowing UV-Resistant Polyurethane Coating is a versatile, easy-to-use, thin-build, abrasion-resistant, durable, non-yellowing aliphatic urethane coating engineered specifically for coating and protecting a variety of surfaces
<b>Uses</b>	Durex® Durathane 90 is used as a UV-Resistant topcoat for interior and exterior applications. It is used as a stand-alone floor coating or part of the Durex Floor Coating Systems to effectively protect surfaces and provide long-lasting gloss and colour retention. Durex® Durathane 90 is also an effective coating for metal, a highly protective and durable wall coating and a topcoat for wood.
<b>Ideal For</b>	<ul style="list-style-type: none"> <li>· UV-resistant protective topcoat for a variety of Durex® Protective &amp; Decorative Flooring Systems</li> <li>· Surfaces subject to UV degradation</li> <li>· Stairways, walls and corridors</li> <li>· UV-resistant topcoat for traffic-bearing surfaces</li> <li>· Metal surface protection</li> </ul>
<b>Features</b>	<ul style="list-style-type: none"> <li>· Easy and quick installation</li> <li>· Versatile, multi-use product with a broad application range</li> <li>· Available pigmented and clear</li> <li>· Outstanding clarity</li> <li>· Elastomeric for increased durability</li> <li>· Aliphatic polyurethane: UV-resistant, non-yellowing coating</li> <li>· Abrasion resistant and extremely durable</li> <li>· Extended pot life</li> <li>· Excellent gloss retention with a smooth finish</li> <li>· Applicable to a variety of surfaces</li> <li>· High solids (77% Clear, 93% Pigmented)</li> </ul>

### TECHNICAL DATA

#### PHYSICAL PROPERTIES

<b>Colour</b>	Pigmented & Clear
<b>Resin Type</b>	Aliphatic polyurethane
<b>Coverage</b>	400 ft <sup>2</sup> /gal @ 3 mils DFT (9.3 m <sup>2</sup> /L @ 100 microns) <i>Two coats recommended @ 4 mils WFT per coat</i>
<b>Mix Ratio</b>	4:1
<b>Cure Time @ 23°C (75°F)</b>	To touch: 2 hours Recoat time: 8 – 24 hours Foot traffic: 24 hours Total cure: 5 days <i>Drying times will vary due to temperature and humidity.</i>
<b>Pot Life – working time @ 23°C (75°F)</b>	60 minutes
<b>V.O.C.</b>	190 g/L

#### PERFORMANCE PROPERTIES

#### TEST METHOD

#### RESULTS

<b>Percent Solids</b>		77% - Clear 93% - Pigmented
<b>Bond Strength</b>	ASTM D4541	350 psi Failure at concrete
<b>Tensile Modulus</b>	ASTM D638-86	2700 psi
<b>Elongation</b>	ASTM D638-86	35%
<b>Abrasion Resistance</b>	ASTM D5178-91 - 1000 g load, 1000 cycles CS-17 Wheel	75 mg
<b>Water Vapour Transmission</b>	ASTM E96	1.2 perms
<b>Crack Bridging</b>	ASTM C836	Pass @ 1/16" @ -26C
<b>Slip Resistance</b>	ANSI A326.3 (BOT 3000E)	0.2 Wet (0.4 with Shark Grip) / 1.0 Dry

<b>Packaging</b>	Durex® Durathane 90 is packaged as a kit based on mixing ratios (Part A & B) in 18.9 L (5 gal), 5.76 L (1.5 gal) and 3.78 (1 gal) units. Custom unit sizes available for orders over 100 gallons. 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® Durathane 90 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 25 degrees C. <b>KEEP FROM FREEZING.</b>
<b>Surface Preparation</b>	<p><b>Previously Coated Floor Surfaces:</b> Coated surfaces shall be clean, dry, and structurally sound and free of debris or other materials deleterious to adhesion including amine blush. Apply Durex® Durathane 90 onto coatings within overcoating period of previous coating (typically within 24 hours). For best results, sand surfaces and solvent wipe clean before overcoating. Mechanical abrasion followed by solvent wipe is required to prepare surfaces that have been coated for more than 24 hours or those that have exceeded their overcoating period.</p> <p><b>Concrete Floor Surfaces:</b> Floor surfaces shall be clean, dry, structurally sound and free of debris or other materials deleterious to adhesion. New concrete shall be allowed to cure for a minimum of 28 days before coating. Clean surfaces by mechanical abrasion to remove dirt, loose materials and debris. Mechanically abrade surfaces in accordance to CSP 2-3. Prime surface with Durex® Epotel Multi-Prime or Durex® Uraflex Primer. Allow primer to cure prior to applications. Primer and inter-coat applications must be coated within 24 hours of application.</p>
<b>Mixing Instructions</b>	Premix both components of Durex® Durathane 90 thoroughly prior to use, ensuring that the two components have been properly mixed without any evidence of settling and the colour is consistent throughout the mix. Mix the products for a minimum of two minutes using a low-speed mixing drill and a spiral type of paddle. Use caution to avoid entrapping air into the mixture.
<b>Application</b>	Durex® Durathane 90 is to be applied in two coats at a wet thickness of 4mils per coat to form an effective abrasion-resistant topcoat. For floors: apply the coating at a rate of 400 ft <sup>2</sup> per gallon using a lint-free, 10 mm solvent-resistant roller. Immediately after application, back-roll the product to ensure proper dispersion of the coating. Do not allow materials to pond or build up thick. For an anti-slip finish, broadcast a light-coloured silica sand or equivalent of desired coarseness and back-roll to encapsulate the aggregate. For all other applications apply via roller, brush or sprayer. Contact a Durabond Technical Representative for more information. Maintain temperature in working areas to receive floor coating at a minimum of 10 degrees for at least 24 hours before, during and after applications until coats have fully cured. For best results avoid applying in direct sunlight or in any conditions that will accelerate cure.
<b>Clean Up</b>	Clean tools and equipment immediately with a cleaning solvent.
<b>Maintenance</b>	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.
<b>Limitations</b>	Do not apply Durex® Durathane 90 if temperature is less than 10 degrees Celsius. Substrate must be 3 degrees Celsius above measured dew point. Apply when environmental conditions are at a minimum of 10°C with less than 65% humidity for at least 24 hours prior to and after application. Monitor the surface and temperature for proper curing times. Curing will accelerate and slow down with the rise and fall of temperature and humidity. Concrete must be fully cured prior to application.
<b>Health and Safety</b>	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.
<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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