

# Durex® Durathane B500

## Elastomeric Urethane, One-Day Application Balcony Waterproofing System

<b>Description</b>	Durex® Durathane B500 Elastomeric Urethane Balcony Waterproofing System is a two-component, high solids aliphatic urethane membrane engineered to waterproof and to protect wood and concrete surfaces such as balconies and walkways. Durex® Durathane B500 is a quick application system, allowing the balcony to be primed and coated in one day.
<b>Uses</b>	Durex® Durathane B500 Elastomeric Urethane Balcony Waterproofing System is a liquid-applied, UV-stable, elastomeric one-day application coating system. Durex® Durathane B500 Elastomeric Urethane Balcony Waterproofing System has crack-bridging properties and rubber crumbs for non-slip functionality.
<b>Ideal For</b>	<ul style="list-style-type: none"> <li>. Balcony terraces</li> <li>. Pedestrian walkways and bridges</li> <li>. Stairways</li> </ul>
<b>Features</b>	<ul style="list-style-type: none"> <li>. Elastomeric waterproofing coating system engineered specifically for balconies</li> <li>. Easy, quick one-step membrane application</li> <li>. Elastomeric and crack-bridging properties</li> <li>. Low odour</li> <li>. Aliphatic urethane, outstanding UV resistance</li> <li>. Abrasion resistant</li> <li>. Pre-blended rubber aggregates</li> <li>. Durable slip-resistant surface</li> </ul>

### TECHNICAL DATA

#### PHYSICAL PROPERTIES

<b>Colour</b>	Please see <i>Durex® Colour Selection Guide</i> for available colour options.
<b>Resin Type</b>	Aliphatic polyurethane
<b>Coverage</b>	64 ft <sup>2</sup> /gal @ 25 mils DFT
<b>Mix Ratio</b>	2 Component Kit - 2:1 (by Volume) - Part A (Resin) : Part B (Catalyst)
<b>Cure Time @ 23°C (75°F)</b>	To touch: 75-120 minutes Fully cured: 16 hours <i>Drying times will vary due to temperature and humidity.</i>
<b>Pot Life – working time @ 23°C (75°F)</b>	60-75 minutes
<b>V.O.C.</b>	10 g/L

#### PERFORMANCE PROPERTIES

#### TEST METHOD

#### RESULTS

<b>Percent Solids</b>		100%
<b>Bond Strength</b>	ASTM D4541	350 psi Failure at concrete
<b>Tear Strength</b>	ASTM D624 Die C	350 psi (2.5 MPa)
<b>Tensile Modulus</b>	ASTM D638-86	1450 psi (10.1 MPa) @ 23°C
<b>Elongation</b>	ASTM D638-86	200%
<b>Low Temperature Flexibility</b>	1/8" Mandrel @ -26°C	Pass
<b>Abrasion Resistance</b>	ASTMD 5178-91 CS-17 Wheel	75 mg 1000 g load, 1000 cycles
<b>Static Coefficient of Friction</b>	ASTMC1208	Dry: 0.80 Wet: 0.60
<b>Water Vapour Transmission</b>	ASTM E96	1.62 perms (91.5g/s/m <sup>2</sup> )

<b>Packaging</b>	Durex® Durathane B500 is packaged as a kit based on mixing ratios (Part A & B) in 18.9 L (5 gal) and 3.78L (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 B500 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. <b>KEEP FROM FREEZING.</b>
<b>Surface Preparation</b>	Surfaces to be coated shall be clean, dry, structurally sound and free of laitance, dust, debris or other materials deleterious to adhesion. Balcony and other horizontal surfaces shall be sloped to drain water to the exterior. The junction of deck-to-wall surfaces shall be treated as a movement joint and sealed appropriately. Contact Durabond Technical Services for further information.  <b>Concrete:</b> New concrete 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. Prepare surfaces by surface grinding or shot blasting to achieve a profile consistent with ICRI CSP 2-3. Prime concrete with Durex® Uraflex Primer installed at 5-7 mils DFT and allow to cure. All structural and moving cracks shall be routed and sealed with a recommended polyurethane sealant. Non-moving cracks greater than 1/16" are also to be routed and sealed. Correct concrete repairs with Durex® Dur-A-Patch 100. Refer to application instructions for further details.  <b>Plywood Deck Sheathing:</b> Plywood deck sheathing shall be minimum ½ inch thick exterior grade plywood and secured back to solid supports. Stagger plywood sheathing joints and secure back to solid supports in a staggered fastening pattern. Caulk joints with approved polyurethane sealant, trowel smooth and allow to cure. Reinforce joints with Durex® Barrier Seam Tape laid in 1mm thick bed of approved polyurethane sealant. Prime with Durex® Uraflex Primer at 5-7 mils DFT.
<b>Mixing Instructions</b>	Mixing shall be carried out in a clean, rust-free container, and mixed by a power drill at 400-500 rpm maximum, using a spiral mixing blade. Pre-Mix Part A prior to mixing. Durex® Durathane B500 is packaged in pre-measured kits and is to be mixed in full kits (ratio of 2 parts by volume of Part A with 1 part by volume of Part B). After pre-mixing Part A, slowly pour all the contents of Part B into Part A while mixing, ensuring the two parts have properly mixed, have colour consistency throughout the mix as well without any evidence of settling. Blend the mixture for two (2) minutes, avoid entrapping air into the product. Durex® Durathane B500 must be applied immediately for best working time and results.
<b>Application</b>	Durex® Durathane B500 is to be applied over a primed surface at a rate of 64 sq ft/gallon using a notched squeegee or a Light Texture Adhesive Roller manufactured by Bennet Tools to achieve a dry film thickness of 25 mils to form an effective waterproofing membrane. Immediately back-roll the coating to ensure proper dispersion of the rubber aggregates. Additional aggregates may be broadcasted into the coating as desired.
<b>Limitations</b>	Do not apply Durex® Durathane B500 if ambient and substrate temperature is less than 8 degrees C or above 32 degrees C during application and curing time. Always adhere to published recoating schedules to ensure coating adhesion. Product must be applied in temperatures 3 degrees C above the dew point. Moisture content of the concrete must be less than 4% by weight, if not the surface must be primed with Durex® Epotel Moisture Block 100. Not applicable for lightweight concrete. Do not add solvent to the mixture.
<b>Clean-up</b>	Clean tools and equipment immediately with solvent reducers.
<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 information.
<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. Refer to published Safety Data Sheet for Health and Safety information prior to use of product.
<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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