

# Durex® Durathane B220

## Elastomeric Urethane Balcony Coating System

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| <b>Description</b> | Durex® Durathane B220 Elastomeric Urethane Balcony Coating System is a two-component, self-priming, high solids elastomeric aliphatic urethane coating designed as a tough, one coat protective coating for pedestrian traffic areas such as balconies and walkways. Durex® Durathane B220 is a quick application system, and features revolutionary self-priming, high adhesion technology for a one coat application.   |
| <b>Uses</b>        | Durex® Durathane B220 is a liquid-applied, UV-stable, elastomeric single application pedestrian coating system. Durex® Durathane B220 is formulated as a self-priming coating with excellent substrate adhesion. It is an elastomeric coating with minor crack bridging and can be broadcasted with silica sand for non-slip functionality.   |
| <b>Ideal For</b>   | <ul style="list-style-type: none"> <li>• Balcony terraces</li> <li>• Pedestrian walkways</li> <li>• Stairways</li> </ul>  |
| <b>Features</b>    | <ul style="list-style-type: none"> <li>• Elastomeric coating engineered specifically for balconies</li> <li>• Easy, quick one-step 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 available</li> <li>• Durable slip-resistant surface</li> <li>• Self-Priming, tenacious adhesion to concrete substrates, primer usually not required</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>                              | 130 ft <sup>2</sup> /gal @ 12 mils DFT  |
| <b>Mix Ratio</b>                             | 2 Component Kit – Mix as supplied   |
| <b>Cure Time @ 23°C (75°F)</b>               | To touch: 75-120 minutes<br>Fully cured: 16 hours<br><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<br>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                 | 380 %  |
| <b>Low Temperature Flexibility</b>    | 1/8" Mandrel @ -26°C         | Pass   |
| <b>Abrasion Resistance</b>            | ASTMD 5178-91<br>CS-17 Wheel | 75 mg<br>1000 g load, 1000 cycles  |
| <b>Static Coefficient of Friction</b> | ASTM C1208                   | Dry: 0.80 (with anti-slip aggregates)<br>Wet: 0.60 (with anti-slip aggregates) |
| <b>Water Vapour Transmission</b>      | ASTM E96                     | 1.62 perms (91.5g/s/m <sup>2</sup> )   |
| <b>Shore A Hardness</b>               |                              | 95   |

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| <b>Packaging</b>           | Durex® Durathane B220 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 B220 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.<br><br><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. Durex® Durathane B220 is designed as a self-priming coating with tenacious adhesion to concrete. Extremely porous substrates are to be primed with Durex® Uraflex Primer. 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 RS-45. Refer to application instructions for further details. |
| <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 B220 is packaged in pre-measured kits and is to be mixed in full kits as supplied. 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 B220 must be applied immediately for best working time and results.   |
| <b>Application</b>         | Durex® Durathane B220 is to be applied over prepared, clean surface at a rate of 130 sq ft/gallon using a squeegee or a Light Texture Adhesive Roller manufactured by Bennet Tools to achieve a dry film thickness of 12 mils (300 microns). Broadcast anti-slip aggregate to achieve desired texture. Immediately back-roll the coating to ensure proper dispersion of aggregates. Integral rubber crumb aggregates may be added into the coating as desired.   |
| <b>Limitations</b>         | Do not apply Durex® Durathane B220 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>   | Read SDS Sheet prior to handling, storage and use. 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. Refer to published Safety Data Sheet for Health and Safety information prior to use of product. <b>KEEP OUT OF REACH FROM CHILDREN.</b>   |
| <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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