

Durex® Dur-A-Hard SL

Self-Leveling Cementitious Polyurethane Flooring System

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| Description | Durex® Dur-A-Hard SL Self-Leveling Cementitious Polyurethane Flooring System is a pourable, phthalate & solvent-free, cementitious polyurethane floor topping system designed to provide a tough and durable, non-slip textured surface for wet and dry production areas predominately in the food and beverage industry. |
| Uses | Durex® Dur-A-Hard SL Self-Leveling Cementitious Polyurethane Flooring System is a squeegee-applied, odourless, 1/8" – 1/4" self-leveling flooring system approved for use in the food and beverage industry. Durex® Dur-A-Hard SL Self-Leveling Cementitious Polyurethane Flooring System is designed to protect concrete floor surfaces against organic and inorganic chemical compounds and bacterial growth, and withstands thermal shock under extreme cold and heat steam treatments. |
| Ideal For | <ul style="list-style-type: none"> • Pharmaceutical laboratories and clean rooms • Chemical processing plants and containment storage rooms • Production processes exposed to aggressive chemicals • Food processing plants, including meat/poultry processing, bakeries and dairy manufacturing • Hospitals and medical centers • Commercial kitchens • Wet areas, loading docks and garbage rooms • Wet and high-impact areas |
| Features | <ul style="list-style-type: none"> • CFIA approved; USDA accepted • Zero VOCs, odorless, and non-tainting • Resistant to organic and inorganic chemical compounds and bacterial growth • Chemical and abrasion resistant • Thermal shock resistant and Wide Service Temperature Range (-10°C to 120°C) • Easy to apply, easy to clean and sterilize • May be applied at low temperatures (5°C) • Seamless waterproof slip-resistant floor topping • Will bond to mild steel and water-resistant plywood |

TECHNICAL DATA

PHYSICAL PROPERTIES

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| Colour | Please see <i>Durex® Colour Selection Guide</i> for available colour options. |
| Adhesion to Concrete | >400 psi (concrete fails before loss of bond) |
| Cure Time @ 21°C | Foot Traffic: 12-14 hours Light Traffic: 24-36 hours Full Service: 48 hours Full Cure: 240 hours |
| Mix Ratio (by volume) | 4 Component Kit Part A (2.0kg), Part B (2.5kg), Part C (11 kg bag) and Part D Colourant (0.5Kg) |
| Coverage (per kit) | 2.8 m ² @ 3 mm (30 ft ² @ 1/8 in) / 1.4 m ² @ 6 mm (15 ft ² @ ¼ in) |
| Pot Life – working time @ 21°C | 20 minutes Note: Pot life is shorter at higher temperatures. Do not use below 5°C or above 30°C. |
| Service Temperature | -10°C to 120°C (steam wash) |

PERFORMANCE PROPERTIES

Abrasion Resistance
CS17 Wheel 1000 GM
Load 1000 Cycles

ASTM C501

35 mg loss

Coefficient of Friction
Standard Slip-Resistant

ASTM D2047

0.9

Compressive Strength

ASTM C579

52 MPa (7,560 psi)

Flexural Strength

ASTM C580

20 MPa (2,908 psi)

Impact Resistance @ 125 mils

MIL D3134

Pass

Tensile Strength

ASTM C307

9.1 MPa (1,323 psi)

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| Packaging | Durex® Dur-A-Hard SL Self-Leveling Cementitious Polyurethane Flooring System is packed as a 4-component kit based on mixing ratios; Part A (2.0Kg), Part B (2.5Kg), Part D colorant (0.5kg) and Part C in 23 kg bag mix is a cementitious admixture. 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® Dur-A-Hard SL Self-Leveling Cementitious Polyurethane Flooring System 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. KEEP FROM FREEZING. Durex® Dur-A-Hard SL has a shelf life of 6 months. |
| Surface Preparation | Surfaces to be coated must be shot blasted, clean, dry, structurally sound and free of oils and debris or other materials deleterious to adhesion. Allow surfaces to thoroughly dry prior to applications. |
| Edge Termination | All the free edges of Durex® Dur-A-Hard floor whether at the perimeter, along gutter or at drains require extra anchorages to distribute mechanical and thermal stresses. This is best achieved by forming or cutting grooves in the concrete. Grooves should have a depth and width of two times thickness of the Durex® Dur-A-Hard flooring material. |
| Moisture Concerns | Moisture content in the slab is to be measured prior to application of flooring system to prevent craters and blistering, due to out-gassing of repaired or freshly prepared substrates. |
| Equipment | Mixing shall be carried out with a clean, rust-free paddle mixer that shall minimize air entrainment, powered by a power drill at 400-500 rpm maximum. |
| Mixing Instructions | Durex® Dur-A-Hard SL Self-Leveling Cementitious Polyurethane Flooring System is supplied in a kit based on mix ratio. Combine Part A, Part D and Part B liquid components in a clean plastic container and mix for two minutes. Combine the liquid mixture component with the dry Part C component in a separate large container (20 L pail) and mix for two minutes. Durex® Dur-A-Hard SL Self-Leveling Cementitious Polyurethane Flooring System must be applied immediately for best working time and results. |
| Application Method | Apply the mixed product onto prepared floor and spread using pin rake and/or squeegee. Spread the material onto the floor at an average wet film thickness of 3 mm to 6mm (1/8 – ¼ inch). Immediately Spike Roll to release entrapped air. Broadcast a non-slip aggregate into coating for increased slip resistance. |
| Cleaning | 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 and recommendations. |
| Health and Safety | 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. |
| 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. |



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