

# Durex® Dur-A-Fast Repair Mortar

## Rapid & Cold curing PMMA based Patching Mortar

<b>Description</b>	Durex® Dur-A-Fast Repair Mortar is a rapid and cold curing, reactive polyurethane modified methyl methacrylate (MMA) based resin product designed for the formulation of repairing and rehabilitation of civil engineering and other concrete structure applications.
<b>Uses</b>	Durex® Dur-A-Fast Repair Mortar is typically designed for patches (up to 1" (25mm) thick), overlays and grouting of slabs. The cured system exhibits high early and ultimate strength in 1 hour. Durex® Dur-A-Fast Repair Mortar can be applied in a temperature range of -20°C to 30°C.
<b>Ideal For</b>	<ul style="list-style-type: none"> <li>• Repair of worn or damaged concrete.</li> <li>• Repair of pre-cast concrete units.</li> <li>• Bedding and sealing concrete units, steelwork, road furniture, etc.</li> <li>• Grouting in dowel pins, rag bolts, holding down bolts and starter bars.</li> <li>• Fixing tiles, slabs, pre-cast facings, etc.</li> </ul>
<b>Features</b>	<ul style="list-style-type: none"> <li>• Quick return of normal traffic and use of structure - faster turnaround of project.</li> <li>• Reduces traffic and exposure of both workers and drivers to construction hazards</li> <li>• Performance not effected by exposure to UV</li> <li>• Long service life - withstands freeze thaw</li> <li>• Cold Temperature Application, may be applied at low temperatures (-20°C)</li> <li>• Zero VOC's,</li> <li>• Resistant to organic and inorganic chemical compounds and bacterial growth</li> <li>• Chemical and abrasion resistant</li> <li>• Easy to apply, easy to clean and sterilize</li> </ul>

### TECHNICAL DATA

#### PHYSICAL PROPERTIES

<b>Colour</b>	Neutral
<b>Adhesion to Concrete</b>	>400 psi (concrete fails before loss of bond)
<b>Mix Ratio (by volume)</b>	3 Component Kit, Ready to Mix Unit (The product is formulated in thixotropic consistency. If required self leveling, the aggregate portion can be reduced).
<b>Cure Time @ 21°C</b>	Foot Traffic: 20-30 Minutes Full Service: 2 hours
<b>Pot Life-working time @ 20°C</b>	10-15 minutes Note: Pot life is shorter at higher temperatures
<b>Coverage</b>	2 kg/ m <sup>2</sup> /mm

#### PERFORMANCE PROPERTIES

#### TEST METHOD

#### RESULTS

<b>Compressive Strength</b>	ASTM C-579	50 MPa (7,270 psi)
<b>Flexural Strength</b>	ASTM C-580	40.7 MPa (5,900 psi)
<b>Impact Resistance @ 125 mils</b>	MIL D-3134	Pass
<b>Tensile Strength</b>	ASTM C-307	7.9 MPa (1,148 psi)
<b>Compressive Modulus of Elasticity</b>	ASTM C 469	0.6 X 10 <sup>6</sup> Psi
<b>Coefficient of Thermal Expansion</b>	ASTM C 531	38 X 10 <sup>-6</sup> °F
<b>Linear Shrinkage</b>	ASTM C 531	0.08%
<b>Water absorption (24 H)</b>	ASTM D 570	0.09
<b>Abrasion Resistance (CS17 Wheel 1000 GM Load 1000 Cycles)</b>	ASTM C-501	35 mg loss
<b>Coefficient of Friction Standard Slip-Resistant</b>	ASTM D-2047	0.9

<b>Packaging</b>	Durex® Dur-A-Fast Repair Mortar is packed as a 3-component kit based on Part A(Resin), Part B (Initiator), and Part C (Aggregates). This product is available in a 7 kg, 3-component unit.
<b>Storage Conditions</b>	Store Durex® Dur-A-Fast Repair Mortar 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> Durex® Dur-A-Fast Repair Mortar has a shelf life of 6 months.
<b>Surface Preparation</b>	Surfaces to be Repaired must be mechanically abraded, clean, dry, structurally sound and free of oils and debris or other materials deleterious to adhesion. Allow surfaces to thoroughly dry prior to application.
<b>Equipment</b>	Mixing shall be carried out with a clean, rust-free paddle mixer that shall minimize air entertainment, powered by a power-drill at 400-500 rpm maximum.
<b>Mixing Instructions</b>	Durex® Dur-A-Fast Repair Mortar is supplied in a ready to use kit. Combine Part 'A' & 'B' components in a clean plastic container and mix for 30 seconds. 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-Fast Repair Mortar must be applied immediately for best working times and results.
<b>Application</b>	Durex® Dur-A-Fast Repair Mortar should be poured onto the substrate immediately after mixing and spread it by means of steel trowel. If anti-slip or a textured surface is desired, the product should broadcast with #20 mesh sand immediately. Durex® Dur-A-Fast Repair Mortar should not be applied in coats thicker than 1" (25mm). Where repairs are to be above 1" (25mm), it is preferable to apply Dur-A-Fast Repair Mortar in layers each with a maximum thickness of 1" (25mm). Apply successive coats after the previous coats have hardened. When using material of flowable consistency, ensure material is given time to settle and self-level before proceeding. When using material of trowel able consistency work it well into the surface to be prepared. Build up layers ensuring good contact and adhesion between coats.
<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. Keep product out of reach of children. Read published Safety Data Sheet prior to use for all safety and health 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.

# DURabond

Technical Coatings Ltd

**HEAD OFFICE**  
55 Underwriters Road  
Scarborough, ON M1R 3B4  
T 416.759.4474 F 416.759.4470

**MISSISSAUGA**  
6178 Netherhart Road  
Mississauga, ON L5T 1B7  
T 905.565.9283 F 905.565.9365

**EDMONTON**  
14345 120<sup>th</sup> Avenue  
Edmonton, AB T5L 2R8  
T 780.451.6364 F 780.453.9056

[INFO@DURABOND.COM](mailto:INFO@DURABOND.COM)

[WWW.DURABOND.COM](http://WWW.DURABOND.COM)

1.877.DURABOND (387.2266)

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