

Durex® Dur-A-Patch EP

Thixotropic, High-Strength, Non-Flow, Epoxy Bedding and Repair Mortar

- Description** Durex® Dur-A-Patch EP is a 100% solids, two-component, aggregates-filled epoxy mortar. It is a NON-SAG gel (thixotropic paste) with excellent adhesion, high strength, with excellent physical properties and easy to use as a versatile general-purpose adhesive mortar. Durex® Dur A Patch EP is a stiff but easily workable compound that can be applied by trowel, spatula or knife. It cures to give high mechanical properties typical of epoxy compounds. It is resistant to oils, greases, petroleum, salts, many acids and alkalis and most commonly met corrosive media. It does not shrink on curing. Its impact resistance and mechanical strength is greater than that of concrete.
- Uses** Durex® Dur-A-Patch EP is an ideal epoxy bedding and repair mortar for a variety of concrete applications. It may be used for repairing surface defects or honeycombing concrete in horizontal, vertical or overhead situations. Durex® Dur-A-Patch EP can also be used as a general-purpose adhesive mortar.
- Ideal For**
- Repairing surface defects or honeycombing concrete in horizontal, vertical or overhead situations
 - Fixing slip bricks to concrete
 - Securing bolts into walls
 - Dowel bars anchoring
 - As a gap-filling adhesive
 - Bedding tiles
 - Filling bolt pockets
 - Repairing concrete posts in-situ
 - Bedding bridge beams or steel bridge bearings
 - Fixing of surface ports for crack injection
- Features**
- Easy to apply
 - Shrink free
 - Chemical resistant
 - High Early strength
 - High tensile and flexural strength
 - Insensitive to moisture during application, cure or whilst in service
 - Excellent adhesion to most building materials even when damp
 - High abrasion resistance
 - Approved for use in contact with potable water High early strength
 - High tensile and flexural strength Supplied in factory proportioned units Easily applied

TECHNICAL DATA

PHYSICAL PROPERTIES	
Colour	Grey (Mixed)
Resin Type	Epoxy
Mix Ratio	Part A (Resin): Part B (Reactor) 2:1 by weight/volume
Cure Time @ 35-40°C	To touch: 2-4 hours To recoat: 6-8 hours
Pot Life @ 23°C	25 minutes
Coverage	App.25 ft ² /6kg kit @ 60 mils

PERFORMANCE PROPERTIES	TEST METHOD	RESULTS
Percent Solids	ASTM D7232-06	100%
V.O.C.	ASTM D3960	0 g/L
Compressive Strength	ASTM C579	60 MPa (8,724 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)
Adhesion to Concrete		Concrete failure
Flexural Strength	ASTM D522	23.2 MPa (3,373 psi)
Adhesion to Steel	1/8" Mandrel @ -26°C	20 MPa (2,908 psi) app
Water Absorption	ASTM D570	< 0.5%
Water Vapour Transmission	ASTM E96	0.29 metric perm
Shore Hardness	D	85

Packaging	Durex® Dur-A-Patch EP is packaged in 6 kg kits comprised of Part A (4 kg) and part B (2Kg). It is also available in 30 kg bulk kits on special order.
Storage Conditions	Store Durex® Dur-A-Patch EP in a dry, vented, waterproof location, stacked off the ground, out of direct sunlight and other detrimental conditions. KEEP FROM FREEZING.
Surface Preparation	All surfaces must be clean and sound. They may be dry or damp, but must be free of standing water and frost. Best results are achieved when the substrate is dry. Remove all dust, dirt, laitance, grease, curing compounds, impregnations, waxes, foreign products, disintegrated, loose and friable materials and any other contaminants.
Mixing Instructions	Pre-stir each component to ensure even consistencies and colours. Empty all of Component B (hardener) into the pail containing Component A and thoroughly mix the combined components for a minimum of three (3) minutes, using a low-speed (400 - 600 rpm) drill fitted with a non-air entraining mixing paddle, until a uniform grey colour is achieved. During the mixing operation, scrape down the sides and bottom of the mixing pail with a flat or straight-edge tool at least once, to ensure no unmixed epoxy remains and a consistent grey colour is produced before applying. Mix only that quantity which can be used within its pot life.
Application	Apply the mixed Durex® Dur-A-Patch EP to the concrete surface using a trowel, spatula or glove-protected hand. Note: Work well into the surface, especially if the substrate is damp. The surface may be finished smooth by use of a paint brush dipped in solvent. Where a very deep recess is to be filled, it may be necessary to build up in layers. Repairs may be camouflaged if required by covering surface with cement powder before full cure is affected.
Limitations	Do not use Durex® Dur-A-Patch EP if temperature is less than 5 degrees C.
Clean-up	Wash all tools and equipment immediately with mineral Xylene or solvent-based cleaner. Allow any unused product to harden in container and discard according to local regulations.
Health and Safety	Use under well-ventilated conditions with appropriate respirator approved for organic vapours and rubber gloves when handling the product. Full eye and skin protection are required when using this product. Harmful if swallowed. Keep product out of reach of children. Read published Safety Data Sheet prior to use.
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.

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 120th Avenue
Edmonton, AB T5L 2R8
T 780.451.6364 F 780.453.9056

INFO@DURABOND.COM

WWW.DURABOND.COM

1.877.DURABOND (387.2266)

V2.01