

Durex® Dur-A-Patch RS-45

Thixotropic, High-Strength, Rapid-Curing Epoxy Repair, Crack & Joint Mortar

Description	Durex® Dur-A-Patch RS-45 is 100% solids, two-component, fast curing thixotropic flexible epoxy gel. 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 epoxy mortar. Durex® Dur A Patch RS-45 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 RS-45 is used to repair concrete substrates, fill cracks and joints in concrete. The product has a degree of flexibility, allowing it to resist breaking and cracking.
Ideal For	<ul style="list-style-type: none"> • Repairing surface defects or honeycombing concrete in horizontal, vertical or overhead situations • As a gap-filling adhesive • Bedding tiles • Filling bolt pockets • Repairing concrete posts in-situ • Fixing of surface ports for crack injection • Filling Cracks and joints in concrete
Features	<ul style="list-style-type: none"> • 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 • High tensile and flexural strength Supplied in factory proportioned units • Easily applied • Rapid Curing. Can sand/abrade within 90 minutes • Flexible

TECHNICAL DATA

PHYSICAL PROPERTIES	
Colour	Grey (Mixed)
Resin Type	Epoxy
Mix Ratio	Part A (Resin): Part B (Reactor) 1:1 by volume
Cure Time @ 35-40°C	To touch & Recoat: 60-90 minutes Full Cure: 7 days
Pot Life @ 23°C	10 minutes
Coverage	Varies

PERFORMANCE PROPERTIES	TEST METHOD	RESULTS
Percent Solids	ASTM D7232-06	100%
V.O.C.	ASTM D3960	0 g/L
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%

Packaging	Durex® Dur-A-Patch RS-45 is packaged in 2 gallon kits comprised of Part A (1 gal) and part B (2 gal). It is also available in 30 kg bulk kits on special order.
Storage Conditions	Store Durex® Dur-A-Patch RS-45 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 RS-45 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. Durex® Dur-A-Patch RS-45 can be mixed with clean silica sand (up to 3 parts 50 mesh silica sand to 1 part Durex® Dur-A-Patch RS-45). Durex® Dur-A-Patch RS-45 can be mixed with a cellulose fibre to increase viscosity for overhead applications. Consult Durabond for further information.
Limitations	Do not use Durex® Dur-A-Patch RS-45 if temperature is less than 2 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)

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