

Durex® Dur-A-Patch 100

Structural Non-Shrink Repair Mortar

Description Durex® Dur-A-Patch 100 is a two-component polymer-modified non-shrink structural repair mortar, mixed with Durex® Dur-A-Patch Liquid Additive.

Uses Durex® Dur-A-Patch 100 is used for the repair of all types of concrete work. In addition to repairs to concrete floors, Durex® Dur-A-Patch 100 can also be used for vertical and overhead repair work. Durex® Dur-A-Patch 100 can also be used to repair brick, concrete block and different types of manufactured and natural stone claddings.

Advantages Durex® Dur-A-Patch 100 has been formulated to provide:

- Ease of application and excellent workability
- Excellent quality control
- High compressive strength yet low shrinkage
- Low shrinkage
- Non sag mortar
- High abrasion resistance
- Superior bonding strength
- High flexural strength
- Resistance to chloride penetration
- Low moisture absorption

TECHNICAL DATA

PHYSICAL PROPERTIES

Pot Life	25 minutes @ 20°C
Initial set	35 minutes @ 20°C
Final set	90 minutes @ 20°C
Coverage	Average coverage 5 m ² /bag (50 ft ² /bag) at 3 mm (1/8") thickness

PERFORMANCE PROPERTIES

PERFORMANCE PROPERTIES	METHOD	RESULT
Compressive Strength	ASTM C109	1 Day 12.5 MPa (1820 psi) 7 Days 34.1 MPa (4950 psi) 28 Days 50.1 MPa (7275 psi)
Shear Bond Adhesion	ASTM C882	9.30 MPa (1340 psi)
Absorption Rate	ASTM D570	1.90% in water
Resistance to De-Icing Salts	ASTM C762	No scaling after 25 cycles
Shrinkage	ASTM C157	1 Day 0.01% 2 Days 0.04% 7 Days 0.07% 28 Days 0.10%
Tensile Strength	ASTM C190	5.8 MPa (850 psi) " 28 days

Packaging Durex® Dur-A-Patch 100 is available in 22.7 Kg (50 lb) bags. Durex® Dur-A-Patch 100 Liquid Additive is available in 18.9 L (5gal) pails and 3.78 L (1gal) bottles.

Storage Store Durex® Dur-A-Patch 100 in a dry, vented, waterproof location, stacked off the ground with ambient temperatures above 5°C (41°F). Keep materials dry, protected from rapid temperature changes, dampness and moisture and away from direct sunlight. **KEEP FROM FREEZING.**

Application Remove all delaminated, scaled, and otherwise deteriorated concrete down to solid concrete. Clean areas to be repaired by suitable means so that the substrate is clean and sound, free from ice, snow, dew and frost, dust, dirt, oil, grease and other foreign matter detrimental to a positive bond. (Consult Durabond Products Limited for questionable substrates). Apply a soupy mixture (Dur-A-Patch 100 and Dur-A-Patch Liquid Additive) or a coat of the Dur-A-Patch Liquid Additive, as a bonding agent, to the areas to be repaired, leaving no standing water. Trowel apply the repair material. Allow a minimum of 24 hours for curing. Protect freshly installed materials from inclement weather until materials have fully set and cured. Prevent rapid evaporation.

Mixing Procedure

Discard all materials which have begun to harden.

Mix Durex® Dur-A-Patch 100 with Durex® Dur-A-Patch Liquid Additive in accordance to the following formula by weight:

- Durex® Dur-A-Patch 100 1 bag
- Durex® Dur-A-Patch Liquid Additive 4.5 litres

Discard all materials which have begun to harden. Mix Durex® Dur-A-Patch Liquid Additive into an empty clean mixing container. While under slow mixing action, add the Durex® Dur-A-Patch 100 in the required mixing proportions. Mix well until the mixture is free of lumps. Do not overmix or use excessive mixing speed. Let mixed materials stand for a few minutes until they begin initial stiffening. Mix only enough materials which can be used within 45 minutes. Re-temper and use. Discard all materials which have begun to stiffen for a second time. **DO NOT SUBSTITUTE NOR COMPENSATE DUREX® DUR-A-PATCH OR DUREX® DUR-A-PATCH LIQUID ADDITIVE MIX WITH WATER OR OTHER ADDITIVES.**

Limitations

Durex® Dur-A-Patch 100 is not recommended for use:

- When ambient, surface and material temperatures must be above 5°C (41°F) during application and curing period

Clean-up

Clean all tool promptly after each use with clean water. Do not allow mixes to dry on tools.

Health and Safety

For information and advice on the safe handling, storage and disposal of chemical products, refer to the most recent SDS sheet containing physical, environmental, toxic and other safety/materials handling data. For Industrial use only. Keep out of reach of children.

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 Products Ltd. sales representative.

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