

Durex® Dur-A-Floor

Trowel Grade Floor Repair Topping

- Description** Durex® Dur-A-Floor is a two-component repair mortar consisting of a dry premixed cement based product mixed with the liquid additive Durex® Acrylic Resin Bond.
- Uses** Durex® Dur-A-Floor is used for concrete floor repair work. It is especially suitable for filling in large holes and recesses in concrete as well as a trowel applied overlay.
- Advantages** Durex® Dur-A-Floor has been formulated with numerous ideal features to facilitate and simplify its application:
- . Simple to use
 - . Excellent workability
 - . Low shrinkage
 - . Excellent compressive and flexural strength
 - . Excellent adhesion to substrate
 - . Excellent freeze-thaw stability

TECHNICAL DATA

PHYSICAL PROPERTIES

Product Type	Polymer modified cementitious topping
Pot Life	1 hr to 2 hrs @ 21°C (70°F)
Full Set	4 hrs
Full Cure	7 days
Shelf Life	8 months
Toxicity	Same as Portland Cement

PERFORMANCE PROPERTIES	TEST METHOD	RESULTS
Compressive Strength	ASTM C109	35.17 MPa (5100 psi)
Flexural Strength	ASTM C293	6.91 MPa (1002 psi)
Shear Bond Adhesion	ASTM C882	11.20 MPa (1625 psi)
Absorption rate	ASTM D570	1.90% in water
Taber abrasion	ASTM D4060	3000 cycles
Tensile Strength	ASTM C190	6.00 MPa (870 psi)

- Limitations** Durex® Dur-A-Floor is not recommended for use:
- . When ambient, surface and material temperatures are below 5°C (41°F) during application and curing period
 - . For repairs in excess of 9.5 mm (3/8”) in depth without the addition of larger aggregates.
 - . As an overlay for large areas.
- Packaging** Durex® Cement Sand Blend is packaged in 22.7 kg (50 lb) bags.
- Storage** Store Durex® Dur-A-Floor 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.**
- Coverage** One bag of Durex® Dur-A-Floor mixed with 5 litres of Acrylic Resin Bond will yield approximately 22.5 litres – 27.0 litres (6 gal – 7 gal) of mix. Coverage will vary according to the applied thickness. Average coverage will be approximately 5 m² (50 ft²) per bag at a thickness of 3.2 mm (1/8”) per coat.

Mixing Procedure

Discard all materials which have begun to harden.

Mix Durex® Dur-A-Floor with Durex® Resin Bond in accordance with the following formula by weight:

- 1 bag, 22.7 Kg (50 lbs) Durex® Dur-A-Floor
- 5 litres (140 – 176 oz) Durex® Acrylic Resin Bond

For sections in excess of 3/4" (19 mm) in depth or overlays thicker than 1/2" (12 mm) use the following formula:

- 1 bag, 22.7 Kg (50 lbs) Durex® Cement Blend Mix
- 22.7 Kg (50 lbs) Concrete sand
- 7 litres Durex® Acrylic Resin Bond

Pour Durex® Acrylic Resin Bond into an empty clean mixing container. While under slow mixing action add the Durex® Dur-A-Floor in the required mixing proportions. Mix well until the mixture is free of lumps. Do no over mix or use excessive mixing speed.

Let mixed material stand for a few minutes until they begin initial stiffening. Mix only enough materials which can be used within 45 minutes. Retemper and use. Discard all materials which have begun to stiffen for a second time.

Application

Remove all delaminated, scaled, and otherwise deteriorated concrete down to solid concrete.

CHECK WITH DURABOND PRODUCTS LIMITED FOR QUESTIONABLE SURFACES.

Clean the 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.

Apply a liquid mixture, as a bonding agent, to the surface to be repaired leaving no standing water. Trowel apply the repair material. When the depth of the area to be repaired is more than 9.5 mm (3/8") deep, add larger aggregates to the mix to prevent shrinkage cracking.

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.

Clean-up

Clean all tools 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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