

# Durex® Cement Sand Blend

## Cement / Sand Mixture for Concrete Patching and Repairing

- Description** Durex® Cement Sand Blend is a cement/sand mix that incorporates a well-balanced blend of selected aggregates and fillers formulated to provide ideal physical properties and excellent workability features for the patching and repair of concrete floors and walls.
- Uses** Durex® Cement Sand Blend is a versatile product which can be used in the patching and repair of concrete floors and walls. It is to be installed as a repair material prior to a self-leveling underlayment topping and/or any other decorative flooring overlays and as a repair mortar compound for repairing and smoothing concrete walls and overhead repairs. Durex® Cement Sand Blend can be used as a concrete repair for Durex® Protective Floor Coatings.
- Advantages** Durex® Cement Sand Blend has been formulated with numerous ideal features to facilitate and simplify its application:
- Bagged, ready to use by simply mixing with Durex® Acrylic Resin Bond or Durex® Acrybond Concentrate additive
  - Excellent workability
  - Low shrinkage, thus resulting in minimum cracking
  - Excellent compressive and flexural strength
  - Versatility - one product suitable for many applications
  - Excellent adhesion to most common surfaces
  - Excellent freeze-thaw stability
- Limitations**
- Ambient, surface and material temperatures must be above 5°C (41°F) during application and curing period
  - Allow to cure for 24 hours before topping with a self-leveling underlayment.
  - Allow to cure for 7+ days before topping with a non-permeable protective coating and epoxy/polyurethane coatings. All patches must be measured to be below 4% moisture content.

### TECHNICAL DATA

PHYSICAL PROPERTIES	
<b>Appearance</b>	Grey cementitious sand mix
<b>Toxicity</b>	CAS Registry No. 65997-15-1 (contains Portland Cement)
<b>Density</b>	1355 kg/m <sup>3</sup>
<b>Bulk pot life</b>	1 hr to 2 hrs (depending on ambient conditions and type of polymer used)

PERFORMANCE PROPERTIES	TEST METHOD	RESULTS
<b>Compressive Strength</b>	ASTM C109-90	44.8 MPa (6560 psi)
<b>Flexural Strength</b>	ASTM C348	6.55 MPa (948 psi)
<b>Shear Bond Adhesion</b>	ASTM C1042	10.6 MPa (1540 psi)
<b>Tensile Strength</b>	ASTM C190	6.00 MPa (825 psi)
<b>Taber abrasion</b>	ASTM C190-85	6.00 MPa (825 psi)

- Packaging** Durex® Cement Sand Blend is packaged in 22.7 kg (50 lb) bags.
- Storage** Store Durex® Cement Sand Blend 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® Cement Sand Blend mixed with 4-5 litres (140 – 176 oz) of Acrylic Resin Bong covers approximately 2.32 m<sup>2</sup> (25 ft<sup>2</sup>) at a thickness of 6.3 mm (1/4”).
- Surface Preparation** Substrate must be dry, solid, clean and sound, free of weak and powdery surfaces, dust, dirt, oil, grease and other deleterious materials detrimental to a positive bond.

## Mixing Procedure

Mix Durex® Cement Sand Blend with in accordance with the following formula:

### Major Concrete Repairs & Moisture Subjected Areas:

- 1 bag, 22.7 Kg (50 lbs) Durex® Cement Blend Mix
  - 4-5 litres (140 – 176 oz) Durex® Acrylic Resin Bond
- Or Alternatively:
- 1 bag, 22.7 Kg (50 lbs) Durex® Cement Blend Mix
  - 2-2.5 litres (70 – 88 oz) Durex® Acrybond Concentrate
  - 2-2.5 litres (70 – 88 oz) Potable Water

### Surface Area Patching & Overhead Repairs:

- 1 bag, 22.7 Kg (50 lbs) Durex® Cement Blend Mix
  - 2 litres (70 oz) Durex® Acrylic Resin Bond
  - 2 – 2.5 litres (70 – 88 oz) Potable Water
- Or Alternatively:
- 1 bag, 22.7 Kg (50 lbs) Durex® Cement Blend Mix
  - 1 litre (35 oz) Durex® Acrybond Concentrate
  - 3 - 3.5 litres (105 - 125 oz) Potable Water

### Interior Wall Parging & Patching / Non-Moisture Subjected Areas:

- 1 bag, 22.7 Kg (50 lbs) Durex® Cement Blend Mix
- 1/2 litre (17.5 ounces) Durex® Cement Bond
- 3.5 – 4 litres (approx. 1 gallon) Potable Water

Pour the water into a clean empty mixing container. While under slow mixing action add the Durex® Cement Blend Mix in the required mixing proportions. Mix well until the mixture is free of lumps. Do not over-mix or use excessive mixing speed. Let mixed material stand for a few minutes until they begin initial stiffening. Mix only enough material 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 WITH OTHER ADDITIVES.**

## Application

Durex® Cement Sand Blend is to be applied by metal trowel and smooth/finish as required. Durex® Cement Sand Blend can be installed to a maximum thickness of ½" (12mm) per application. Applications over ½" (12mm) can be installed in multiple coats, or through the addition of pea gravel (maximum 10mm in diameter) into the mixture at a rate of 5-7kg per bag.

## 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 MSDS 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](mailto:info@durabond.com). For the latest version of this data sheet, please visit our website at [www.durabond.com](http://www.durabond.com), call toll free at 1-877-DURABOND (387-2266) or speak with your Durabond Products Ltd. sales representative.

# DURabond

**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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