

# Durex® Cement Bond

## Latex Emulsion Interior/Exterior Use Cement-Bonding Agent

<b>Description</b>	Durex® Cement Bond is a latex emulsion for use both as a bonding agent and as an additive.
<b>Uses</b>	Durex® Cement Bond is used as both a general additive to cement-based mixes and as a slurry primer to improve bonding between old concrete and new concrete toppings.
<b>Advantages</b>	<p>Durex® Cement Bond is formulated to provide:</p> <ul style="list-style-type: none"> <li>• Permanent concrete repairs</li> <li>• Elimination of costly chipping or roughening of surface required</li> <li>• Excellent bonding strength to cleaned old surfaces</li> <li>• The application of concrete topping from 0 to over 25 mm (1") thick</li> <li>• Improved tensile, flexural and compressive strength of the mixture</li> <li>• Complete compatibility with high-alkaline Portland cement mortars</li> <li>• Compatibility with mortar-colouring pigments</li> <li>• Versatility and ease of use</li> </ul>

### TECHNICAL DATA

#### PHYSICAL PROPERTIES

<b>Product Type</b>	Water-based latex emulsion
<b>Appearance</b>	White milky dense liquid
<b>Viscosity</b>	1500 - 2000 cps
<b>pH Level</b>	6.0 - 6.5
<b>Toxicity</b>	Non-toxic
<b>Coverage (typical)</b>	<p><b>Primer:</b> Porous substrates 2.0 to 3.0 L/m<sup>2</sup> (100 to 150 ft<sup>2</sup>/gal) 2coats Dense substrates 4.0 to 6.0 L/m<sup>2</sup> (200 to 300 ft<sup>2</sup>/gal) 1 coat</p> <p><b>Typical Addition Rates:</b> 4 litres/bag of Portland Cement (40kg/bag)</p>

#### PERFORMANCE PROPERTIES

PERFORMANCE PROPERTIES	METHOD	RESULT
<b>Tensile Strength</b>	ASTM C190	3.90 MPa (565 psi)
<b>Compressive Strength</b>	ASTM C109	35.2 MPa (5105 psi)
<b>Flexural Strength</b>	ASTM 348	8.30 MPa (495 psi)
<b>Shear Bond</b>	ASTM C882	4.10 MPa (595 psi)

**Packaging** Durex® Cement Bond is readily available in 4 litre containers, 18.9 litre pails and 45 gallon (205 litres) drums.

**Storage** Store Durex® Cement Bond in a dry, vented, waterproof location, stacked off the ground with ambient temperatures above 5°C (41°F). Keep material dry, protected from rapid temperature changes, dampness and moisture and away from direct sunlight. **KEEP FROM FREEZING. DISCARD ANY FROZEN MATERIALS.**

**Mixing Procedure** Do not substitute Durex® Cement Bond with any other type of mixing liquid medium for the above-recommended formulations, unless otherwise approved in writing by Durabond Products Limited. Thoroughly mix Durex® Cement Bond before each use. Discard all frozen materials, materials which have formed solid lumps at the bottom of the container and materials which do not appear to be of a homogeneous viscosity. It is recommended that with all applications of cement toppings and mortar repairs where Durex® Cement Bond is to be used as the additive, a slurry prime coat be applied first. Mix the slurry primer as follows:  
1 part Durex® Cement Bond  
3 parts water

Apply the primer to the cleaned and sound substrate with a brush, broom or squeegee, ensuring that the surface to be treated is completely wetted but not soaked. Allow the primer to soak into the substrate. When the primer has become tacky, apply the selected cement mixture and trowel to fine finish as required.

Concrete topping up to 9.5 mm (3/8") thick  
 • Parging coat for concrete blocks  
 1 bag (40 kg) Portland cement Type 10

68 kg (150 lb) #35 mesh silica sand  
4 litres Durex® Cement Bond  
8 litres water  
Coverage: 12 m<sup>2</sup> at 6.4 mm (130 ft<sup>2</sup> at 1/4") thick

. Concrete topping from 12.7 mm - 25 mm (1/2" - 1") thick  
1 bag (40 kg) Portland cement Type 10  
136 kg (300 lb) concrete sand  
4 litres Durex® Cement Bond  
14 litres water  
Coverage: 5.5 m<sup>2</sup> at 12.7 mm (60 ft<sup>2</sup> at 1/2") thick

. Concrete topping over 25 mm (1") thick  
1 bag Portland cement Type 10  
59 kg (130 lb) concrete sand  
100 kg (220) lb pea gravel  
4 litres Durex® Cement Bond  
17 litres water

Cement mixes modified with Durex® Cement Bond can be mixed mechanically or by hand. Mix the Durex® Cement Bond with the materials in the proportions noted. The viscosity of the matrix as desired can be adjusted by adding a small amount of water. Mix thoroughly until matrix is free of lumps. Do not over mix or mix with mixing paddles at speeds over 600 rpm as excessive air will be induced into the mix which will affect the long-term performance of the mixture. Let mixture stand for 5 to 10 minutes, then re-temper and use. Discard all mixtures which begin to harden a second time.

#### Limitations

Durex® Cement Bond is not recommended for use:

- . In high moisture areas
- . For modification to exterior cement mortars
- . When ambient, surface and material temperatures are below 5°C (41°F) during application and curing period
- . Over previously painted surfaces
- . Over bituminous materials

#### 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](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.

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