

Durex® Self-Leveling Cement QS

Polymer-Modified Self-Leveling Underlayment

Description	Durex® Self-Leveling Cement QS is a cementitious, fast-curing, well-balanced blend of selected aggregates and various types of cements to produce a pourable or pumpable cement compound which will self-level after screeding to the desired level of coverage. It is used in conjunction with Durex® Acrybond Concentrate.
Uses	Durex® Self-Leveling Cement QS is used as a rapid fast-setting high-strength underlayment over rough concrete floors to fill cracks; repair damaged floor areas due to poor finishing, frost damage, etc.; or for general leveling of new and existing floor surfaces prior to installation of finish flooring material.
Features	Durex® Self-Leveling Cement QS has been formulated to provide the following features to facilitate and simplify its application: <ul style="list-style-type: none"> • Easy to use • Fast setting (can be walked on in 2 hours) • High strength; over 29 MPa (4200 psi) • Excellent adhesion when used in conjunction with Durex® Acrybond Concentrate • Mix as required (no waste) • Minimum skill required for application

TECHNICAL DATA

PHYSICAL PROPERTIES	
Product Type	Water-based latex emulsion
Appearance	Fine-granulated grey powder
Toxicity	Non-toxic
Coverage	1 bag per 2.6 m ² (28 ft ²) at 6.4 mm (1/4") thick

PERFORMANCE PROPERTIES	METHOD	RESULT	
Compressive Strength	ASTM C109	1 Day 19.3 MPa (2800 psi) 7 Days 29.0 MPa (4209 psi) 28 Days 37.9 MPa (5500 psi)	
	Flexural Strength	ASTM C348	6.8 MPa (980 psi)
	Shear Bond Adhesion	ASTM C1042	7 Days 4.5 MPa (650 psi) 14 Days 7.9 MPa (1150 psi)
Tensile Strength		ASTM C190	7.6 MPa (1100 psi)

Packaging	Durex® Self-Leveling Cement QS is available in 22.7 Kg (50 lb) bags.				
Storage	Store Durex® Self-Leveling Cement QS 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.				
Mixing Procedure	<p>Discard all materials which have begun to harden.</p> <p>Mix Durex® Self-Leveling Cement QS with potable water in accordance to the following formula by weight:</p> <table border="0" style="margin-left: 20px;"> <tr> <td>• Durex® Self-Leveling Cement QS</td> <td style="text-align: right;">1 bag</td> </tr> <tr> <td>• Potable Water</td> <td style="text-align: right;">4.5 litres</td> </tr> </table> <p>Mix Durex® Self-Leveling Cement QS into an empty clean mixing container. While under slow mixing action add the Durex® Self-Leveling Cement QS in the required mixing proportions. Mix well until the mixture is free of lumps. Do not overmix or use excessive mixing speed. Do not over-dilute with water. Let mixed materials stand for a few minutes until they begin initial stiffening. Mix only enough materials which can be used within 30 minutes. Re-temper and use. Discard all materials which have begun to stiffen for a second time.</p>	• Durex® Self-Leveling Cement QS	1 bag	• Potable Water	4.5 litres
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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). For solid non-porous surfaces, apply a primer coat, Durex® Acrybond Concentrate, as a bonding agent for best results, to the areas to be repaired, leaving no standing liquid. The primer coat should be mixed 1 part Durex® Acrybond Concentrate to 1				

part water. For high-porous surfaces, apply two coats of Durex® Acrybond Concentrate. The first primer coat should be mixed 1 part Durex® Acrybond Concentrate to 3 parts water and the second coat 1 part Durex® Acrybond Concentrate to 1 part water. Pour the Durex® Self-Leveling Cement QS mix and spread with a spreader, screed or trowel as required. 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.

Limitations

Durex® Self-Leveling Cement QS is not recommended for use:

- When ambient, surface and material temperatures must be above 5°C (41°F) during application and curing period
- Over wood substrate
- For toppings over 12.7 mm (1/2") thick in any one coat
- Over concrete surfaces less than 24.2 MPa (3500 psi) strength
- Over previously treated surfaces without proper preparation
- Over surfaces where oil, grease and other deleterious materials are present

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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V2.01