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# ARDEX CL 11

## Commercial Smoothing and Levelling Compound

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Fast drying for early utilisation

Durable: excellent surface hardness

No surface grinding: ready to receive adhesives

Can be pumped or trowel applied

High compressive strength

Green Label certified



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### **SPECIFICATION CLAUSE**

All indicated sub-floors will be prepared with ARDEX CL 11 self levelling compound manufactured by ARDEX . Where applicable a DPM of ARDEX WPM 300 Hydroepoxy shall be installed. All in accordance with the manufacturer's printed literature.

### **DESCRIPTION**

ARDEX CL 11 has been specially designed to produce a smooth, flat surface when applied to hard, rigid sub-floors such as sand/cement screeds, concrete, etc. ARDEX CL 11 contains high-quality synthetic resin, special cement and selected fillers so that, when mixed with water, a fluid easily trowelled mortar with free-flowing properties is produced. The mixed mortar can be applied up to a maximum thickness of 10 mm in one application or 20mm in two applications but will more normally be applied at 3 - 10mm. For smoothing applications, ARDEX CL 11 can be applied at a minimum of 1.5mm.

### **USE**

ARDEX CL 11 should be used to level and smooth uneven internal sub-floors such as concrete, cement/sand screed, quarry tiles, etc. prior to the installation of resilient flooring.

ARDEX CL 11 has been formulated to cater for the high humidities and high ambient temperatures that are typical in tropical climates.

### **SURFACE PREPARATION**

Limitations: Not suitable for exposed wearing surfaces. For internal use only.

Direct to ground subfloors must be protected from rising damp using ARDEX WPM 300 Hydroepoxy.

The surface must be hard, sound and free of dust, dirt and other barrier materials such as grease, paint, water softenable adhesive residues or loosely adhered material, etc. Use commercial degreaser to remove polish, wax, grease, oil and similar contaminating substances. When hard, adhered adhesive residues are present they should be of sufficient cohesive strength to support the applied smoothing compound; a trial application is recommended to assess suitability. Do not apply

ARDEX CL 11 over old residues that are softened by water.

NOTE: If the floor is damp through construction moisture or rising damp use ARDEX WPM 300 Hydroepoxy.

### **PRIMING**

Priming is mandatory especially onto very absorbent sub-floors such as self-smoothing compound, concrete or cement/sand and screeds. Use ARDEX P 51 primer to seal the pores, to prevent air bubbles from rising through the applied mortar, to maintain floor life and also to promote excellent uniform adhesion to the substrate.

With very smooth, dense and non-absorbent sub-floors it may be necessary to use ARDEX P 82 primer to ensure adequate adhesion of the subsequently applied ARDEX CL 11.

### **MIXING**

A 25 kg bag should be mixed with a maximum of 5.5 - 6 litres of cool, clean water.

The use of an ARDEX mixing paddle with a 10mm chuck, variable speed drill ensures thorough mixing with maximum sheer yet minimum air entrapment and heat build up. The use of ARDEX mixing buckets is recommended to reduce the incidence of unmixed powder around the bottom of the bucket. Always add correctly measured water to a clean mixing bucket first.

ARDEX CL 11 powder should then be added whilst stirring slowly. Mix steadily and thoroughly until a lump free fluid mortar is produced.

After approximately two minutes mixing scrape down the sides and around the bottom of the bucket to ensure no deposits of dry powder. Continue mixing for another minute until an even consistency is achieved.

It is not recommended to split bags of ARDEX CL 11 for partial mixing.

### **APPLICATION**

Pour ARDEX CL 11 mortar onto the primed sub-floor and use a steel finishing trowel or float to spread the

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mortar and finish off. The mixed mortar will flow out and self-smooth within the first 15 minutes of its 20 minutes working time. Roll the surfaces with spike roll to release the all entrapped air within the wet mortar.

### DRYING AND HARDENING

A 5mm layer of ARDEX CL 11 is walkable after approximately 3 hours and ready to receive floor coverings after 24hrs at 30°C. In case of air humidity and low temperature, it can take longer time to dry and may take up to 48 hours before floor coverings being installed.

### COVERAGE

Approximately 1.5kg ARDEX CL 11 powder/m<sup>2</sup>/mm, e.g. one 25kg bag will cover approximately 5.55m<sup>2</sup> at 3mm thickness.

### PACKAGING

ARDEX CL 11 is packed in paper sacks incorporating a polyethylene liner - net weight 25kg.

### STORAGE AND SHELF LIFE

ARDEX CL 11 should be stored under the same conditions as cement; store ARDEX CL 11 in cool, dry shaded warehouses. ARDEX CL 11 should not be stored in direct contact with the floor. When stored under the correct conditions ARDEX CL 11 will have a shelf life of 6 months.

### TECHNICAL DATA

<b>Bulk density of powder:</b>	approx. 1.2 kg/L
<b>Wet density of mortar:</b>	approx. 2.0 - 2.2kg/L
<b>Working time at 30°C:</b>	approx. 20 minutes
<b>Flow life at 30°C:</b>	approx. 10 minutes
<b>Initial Set (Vicat):</b>	approx. 50 - 70 minutes
<b>Final Set (Vicat):</b>	< 120 minutes
<b>Compressive Strength</b>	
28 days:	≥ 30 N/mm <sup>2</sup>
<b>Flexural Strength</b>	
28 days:	≥ 5 N/mm <sup>2</sup>

### SAFETY PRECAUTIONS

Avoid contact with skin; wash off with soap and water before drying takes place. In case of contact with eyes, rinse carefully and thoroughly with water and seek medical advice. In case of ingestion, seek medical assistance. During the installation process, adequate ventilation of the work area should be maintained without causing the entry of contaminants to other parts of building. Consult the relevant Safety Datasheet for further information (available upon request and online at [www.ardex-quicseal.com](http://www.ardex-quicseal.com)).

### DISCLAIMER

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