ARDEX CL3

SELF LEVELING COMPOUND

Apply easily – just add to water and mix

Early strength – available foot traffic installation after 6 hours

For thickness from 2-10mm

Received compatibly – suitable for all adhesives and floor coverings

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ARDEX CL3

SELF LEVELING COMPOUND

Description:

ARDEX CL3 has been especially designed to produce a flat surface when applied to hard, rigid sub-floors such as cement/sand screed and concrete, etc.

ARDEX CL3 contains high quality synthetic resins, special cements 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 from 2 mm up to 5 mm in one application.

For levelling applications ARDEX CL3 cures to a virtually tension-free underlayment that can receive tiles after 48 hours and resilient flooring such as vinyl, linoleum, rubber ,carpet etc. after 72 hours (when applied at 3 mm thick).

USE:

ARDEX CL3 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. A maximum thickness of 5 mm can be installed in a single application.

Packaging/ Shelf life:

25 kg
6 months when stored in the original unopened packaging, in a dry place at 25^0C and 50% relative humidity.

Coverage :

Approximately 1.6 kg ARDEX CL3 powder per m^2 and mm, e.g. one 25 kg bag will cover approximately 5 m^2 at 3 mm thickness.

Surface Preparation

The surface must be hard, sound and free of dust, dirt and other barrier materials such as grease, paint, water-softened adhesive residues or loosely adhered materials, etc. Use commercial degreaser to remove polish, wax, grease, oil and similar contaminating substances. Mechanically clean the floor using recommended preparation methods such as shot-blasting, scarifying, grinding, or other suitable methods to provide a roughened, clean, sound, open porous surface. Sub-floor must be dry and properly primed for successful installation. Sub-floor temperature must be a minimum of 10˚C.

Direct to ground sub-floors must be protected from rising damp using ARDEX DPM.

Priming

Priming is recommended especially onto absorbent sub-floors such as concrete or cement/sand screeds. Use ARDEX P51 primer to seal the pores, to prevent air bubbles from rising through the applied mortar, to maintain flow life and also to promote excellent uniform adhesion to the substrate subsequently applied ARDEX CL3. See priming and preparation leaflet for guidance.

Note: Low subfloor temperature and/or high ambient humidity require longer drying time for Ardex primers. Do not install levelling compounds until primers have dried thoroughly.

Mixing

The use of an ARDEX mixing paddle with a 10mm chuck, variable speed electric drill ensures thorough mixing with maximum shear 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 CL3 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 CL3: a 25kg bag should be mixed with 5.0-5.25 litres of cool, clean water. Do not over-water.

Application

Pour ARDEX CL3 mortar onto the prepared sub-floor using the Ardex stand-up spreader or Ardex hand trowel to spread the mortar and finish off. The mixed mortar will flow out and self-smooth within the first 10-15 minutes of its 20 minutes working time. A 3mm layer of ARDEX CL3 will be walk-able after approximately 8 hours at 23° C, this time is extended at lower and reduced at higher temperatures. This time is also reduced where thinner applications are applied to absorbent sub-floors. Apply at temperature above 10° C.

Drying and Hardening

A 3 mm layer of ARDEX CL3 is walk-able after 6 hours and ready to receive floor coverings after 72 hours at 23° C and 50 % R.H.

Where the applied mortar is subjected to rapid drying conditions or where the installation of the floor covering is delayed for longer than 72 hours, the surface should be covered to provide temporary protection against surface damage and contamination.

Clean

Clean up tools with water before drying occurs.

Product Limitation

1. Not suitable for asphalt and timber sub-floors that subject to vibration or heavy loads.
2. For internal use only.
3. Not suitable for feather edge and thickness under 2 mm. Use other Ardex system such as ARDEX K11 for feather edge application.
4. If a fast and self dying product is required, use ARDEX K 15.

Technical Data:

Appearance:	powder
Colour:	Grey
Bulk Density:	Approx. 1.30 kg/litre
Fresh Mortar:	Approx. 2.10 kg/litre
Flowing time:	15 mins
Walkable:	6 hours
Technical Data:	
Testing Methods	Specific requirements
Initial Set: **ASTM C191** **At 25℃**	60~80 mins
Final Set: **ASTM C191** **At 25℃**	80~130 mins
Compressive Strength: **ASTM C109** **1 days air dry** **7 days air dry** **28 days air dry**	 > 70 kg/ cm^2 > 255 kg/ cm^2 > 325 kg/ cm^2
Flexural Strength: **ASTM C348** **1 days air dry** **7 days air dry** **28 days air dry**	 > 25 kg/ cm^2 > 50 kg/ cm^2 > 80 kg/ cm^2
Shrinkage: **ASTM C531** **28 days air dry**	 <0.1%
Tabor Abrasiont: **ASTM D4060** **(100 cycles, H22 wheel, 1000g load) 28 days**	< 0.5g loss

We assume warranty for the perfect quality of our products.
Our handling recommendations are based on trials and practical experience; however, they can only be regarded as general advise without a quality warranty, as we have no influence on work site conditions and the execution of the work