



ARDEX CL5

INDUSTRIAL SMOOTHING 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

ARDEX TAIWAN INC
10F-2., NO.120, Qiaoch Rd.,
Zhonghe Dist., New Taipei City,
Taiwan
Tel: 886-2-82457737
Fax: 886-2-82457133
Email: inform@ardex.com.tw
Website: www.ardex.com.tw

Headquarter

ARDEX GmbH
Friedrich-Ebert-Str. 45
D-58453 Witten
Tel: (+49) 2302/6 64-0
Fax: (+49) 2302/6 64-2 99
Email: kundendienst@ardex.de
Website: www.ardex.de

Asian North HQ

ARDEX (Shanghai) CO., Ltd
3F, Building 3, No 505, South Zhongshan
RD., Huangpu district,
Shanghai, China 200010
Tel: +86 21 6152 6722
Fax: +86 21 6152 6726
Internet: www.ardex.com

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Description:

ARDEX CL5 is a Portland based polymerized self-leveling cement, it is used as an underlayment, concrete topping or a finished floor. ARDEX CL5 provides a smooth, flat and level surface. It can be installed from 2 mm up to maximum thickness of 10 mm in a single application but will normally be applied at 3~5 mm. Also it may be allowed foot traffic after installation in 4~6 hours at 25°C/50%R.H. that can be received tiles and all types of adhesives, floor covering etc. within 12~24hours (when applied at 2~5 mm thick).

Features/ Benefits:

Features	Benefits
Apply easily	Just add to water and mix
Early strength	Available foot traffic installation after 6 hours
Comply with standard	Strength performances are under control
Adjustable thickness	2~10mm, using aggregates can be exceeded 10mm
Received compatibly	suitable for all adhesives and floor coverings

Application Range:

Location	Internal
Performance Level	Residential, commercial
Surfaces	floors
Substrates	Cement render, concrete, masonry surface, ALC or light-weight board

Packaging/ Shelf life:

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

Coverage :

Approx. 1,6 kg of powder per m² and mm.
Real coverage is depended on flatness of the substrate.

Surface Preparation

All sub-floor should be dry, solid, clean and free of oil, grease, wax, latex compounds, curing compounds, dust and any substance might act as bond breaker before priming with ABA 662.V primer. Wetted, frozen or otherwise weak concrete surface must be mechanically cleaned down to sound, solid concrete by short blasting, scarifying, and grinder or similar.

All cracks in the sub-floor shall be repaired to prevent damaging through the underlayment. For deep pour and large void that is recommended to fill with ABA Patching Compound or mix ARDEX CL5 with a well-washed and dried aggregate 0.5~1.2 mm for obtain the desired height or level.

Priming

Mix 1 part ABA 662.V Primer with 2-3 parts water and apply evenly. Require two applications of primer to avoid bubbles and pinholes in the surface of leveling compound. Apply the primer by spray, broom or roller. Spread the primer across the substrate and let it dry, the drying time is depended on the ambient temperature and humidity. Do not install leveling compound until primer has dried thoroughly.

Mixing

Pour 1 bag of ARDEX CL5 powder 25 Kg into 5.25~5.5 litres of clean water and mix with a electric drill (min.500rpm). Blend until mixture becomes homogeneous and contain no lumps. Total mixing time is approximately 2~3 mins. Do not use over water.

Application

- Pour or pump the flowing ARDEX CL5 and spread in place with spreader or hand trowel.
- Sufficient material should be used to adequately cover all high point(min 2~3 mm). The mixed mortar can self-smooth itself during the first 20 mins.
- Usually a 3mm layer of ARDEX CL5 will be walkable after approximately 3 hours at 25°C, this time is altered by temperature and application thickness. Apply at temperature above 10°C.
- For areas requiring a thickness over 10mm, ARDEX CL5 must mix with the well washed and dried 2~5 mm sand. Mix ARDEX CL5 with water first then add the sand at a mixing ratio of 1 part of 2~5mm sand by weight to get the semi-flow mortar.

For High Stress Areas Application

ARDEX CL5 can add ABA 672.V to increase the bonding strength, better flexibility and wear resistance in sub-floor where surface are subjected to vibration, required to carry high load or high traffic area.

Wear Surfaces: To level and resurface concrete floors in warehouses, storage areas, indoor parking garages, hallways or other areas where a wear surface is required.

Mixing Instruction: Mixing (1:4) water diluted ABA 672.V with ARDEX CL5 products and the liquid ratio is $23\pm 1\%$.

Clean

Clean up tools with water before drying occurs.

Product Limitation

1. For internal use only.
2. Sub-floor temperature must be a minimum of 10°C.
3. Not suitable for asphalt and timber sub-floors that subject to vibration or heavy loads.

Technical Data:

Appearance:	powder
Colour:	Grey/ White
Bulk Density:	Approx. 1.30 kg/litre
Fresh Mortar:	Approx. 2.10 kg/litre
Flowing time:	20 mins
Technical Data:	
Testing Methods	Specific requirements
Initial Set: ASTM C191 At 25°C	40~60 mins
Final Set: ASTM C191 At 25°C	60~80 mins
Compressive Strength: ASTM C109 1 days air dry 3 days air dry 7 days air dry 28 days air dry	> 90 kg/ cm ² > 200 kg/ cm ² > 300 kg/ cm ² > 400 kg/ cm ²
Flexural Strength: ASTM C348 1 days air dry 3 days air dry 7 days air dry 28 days air dry	> 35 kg/ cm ² > 45 kg/ cm ² > 55 kg/ cm ² > 85 kg/ cm ²
Adhesion Strength: ASTM D4541 28 days air dry	> 16 kg/ cm ²
Shrinkage: ASTM C531 7 days air dry 28 days air dry	<0.03% <0.1%
Tabor Abrasion: ASTM D4060 (100 cycles, H22 wheel, 1000g	< 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 advice without a quality warranty, as we have no influence on work site conditions and the execution of the work
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