



ARDEX 318

Rapid setting polymer modified cementitious coating (Heavy-Duty)
(formerly known as ABA 318L)

Rapid setting - Ready for traffic in 2 hours

Excellent skid, abrasion, impact and weathering resistance

Excellent adhesion to concrete

High flexural and compressive strength

Durable, suitable for foot and vehicle traffic

For internal and external use



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ARDEX 318

Rapid setting polymer modified cementitious coating (Heavy-Duty)

DESCRIPTION

ARDEX 318 is a two component polymer modified cement coating with rapid setting and fibre-reinforced features. It has excellent skid, abrasion and impact resistance. Can used for internal and external.

FEATURES & BENEFITS

- Rapid setting - Ready for traffic in 2 hours
- Excellent skid, abrasion, impact and weathering resistance
- Excellent adhesion to concrete
- High flexural and compressive strength
- Durable, suitable for foot and vehicle traffic
- For internal and external use

TYPICAL APPLICATIONS

- Topping of new and old concrete floors to increase skid and wear resistance
- Resurfacing of worn out concrete floors
- Patching and repairing of damaged concrete surfaces with high vehicular traffic
- Suitable for warehouses, car parks & driveways, bus bays, concrete roads, docks, etc

SURFACE PREPARATION

The substrate must be dry, sound, clean, free of dust, loose particles, grease or any other contaminants. Surfaces should be smooth and free from honeycombs cracks, protrusions or voids. Concrete surfaces should be free from laitance which, if present, should be removed by scabbling or grit blasting to produce a sound surface.

After cleaning, the floor must be swept to ensure its free from dust and damped down with water to satisfy the natural absorption. Pools of water must be dispersed. Existing substrate expansion joint is to be continued through the new topping and any moving cracks should be isolated with a movement joint.

If the conditions of the ground (surface to be treated) temperature is above 45°C, the surface should be wetted in order to cool down. That is to avoid flash set of primer.

PRIMING

Use ARDEX Multiprime or ARDEX P 51 to prime the surface and allow it to dry for approximately 15 minutes prior to the application of ARDEX 318.

MIXING

Pour component A (liquid) into a clean container. Slowly add component B (powder) into the container that contain component A and mix with a low speed mechanical mixer until a homogeneous and lump free mix is obtained.

APPLICATION

Immediately after mixing, use a trowel to spread ARDEX 318 to the primed surface at thickness of minimum 3mm and maximum 6mm in one layer application.

For application that require more than 1 layer, sufficient curing time of 6–12 hour is recommended for each subsequent layer, after the previous layer are completely cures and hardens. For surfaces that required anti-skid finish, ARDEX 318 can be broom sweep to a desired texture within 5 minutes after applications.

DRYING TIME

Foot traffic are allowed after installation in 2 hours at 30°C / 50% RH.

COVERAGE

Covers approximately 5m² per set of ARDEX 318 at the thickness of 3mm. The coverage depends on the roughness and surface of the substrate.

TECHNICAL DATA

Working time @30C:	approx. 5 minutes
Initial setting time:	approx. 10 minutes
Final setting time:	approx. 15 minutes
Foot traffic:	2 hours
Shear Bond Adhesion:	approx. 2.4 N/mm ²
Compressive Strength:	
24 hours	approx. 13 N/mm ²
7 days	approx. 35 N/mm ²
28 days	approx. 42 N/mm ²
Flexural Strength:	
28 days	> 9-12 N/mm ²

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LIMITATIONS

- Do not apply ARDEX 318 on fresh mortar or render.
- Do not dilute the product under any circumstances.
- Substrate must be properly primed prior to application of ARDEX 318

PACKAGING

ARDEX 318 are packed in 30kg unit incorporating component A (Powder) in 25kg bag, and component B (Liquid) in 5kg container.

STORAGE AND SHELF LIFE

ARDEX 318 should be stored in cool, dry shaded warehouses, away from rain, sunlight and extreme temperature. ARDEX 318 should not be stored in direct contact with the floor. When stored under the correct conditions, ARDEX 318 will have a shelf life of 6 months.

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 Material Safety Datasheet for further information (available upon request and online at www.ardex.com.sg).

DISCLAIMER

The technical datasheets are based on the latest information and given in good faith and represent the best of our knowledge and experience at the time of printing. They are primarily offered for user's consideration and evaluation. It is the responsibility of the user to conduct their own tests to validate the suitability of the products. It is also the responsibility of the user to ensure that the products are used and handled correctly and in accordance with any applicable standards, the product instructions and recommendations and only for the uses they are intended. As we have no control over site conditions and the execution

of the work, we accept no liability for any loss or damage which may rise as a result thereof. We also reserve the right to update the information at any time without prior notice to you to reflect our ongoing research and development.

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