ARDEX LQ 92

Under Tile Levelling Compound

Self smoothing - provides level concrete floors, perfect for tiling

Polymer modified - can be applied from feather edge up to 25mm

Early walkability - can be walked on or tiled over after 4 hours

Cement based - compatible with ARDEX cement based tile adhesives

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ARDEX LQ 92

Under Tile Levelling Compound

DESCRIPTION

ARDEX LQ 92 is a cement based underlay for levelling uneven concrete floors prior to tiling. When mixed with water, ARDEX LQ 92 provides a smooth, pourable, free flowing and self smoothing material that can be applied to a thickness of 25mm down to a feather edge. Greater thicknesses can be achieved with an multiple layers or by the addition of aggregate.

USE

Levelling underlay for use over uneven concrete before laying tiles in internal and external areas. ARDEX LQ 92 is suitable for use with under floor heating.

Not recommended for use under vinyl coverings.

SUBSTRATE PREPARATION

Concrete should be clean, sound and free from all contaminating materials, e.g. paint, wax, curing compounds and oil. New concrete should be at least 4 weeks old. Remove laitance by mechanical means, followed by vacuuming to ensure removal of all loose particles.

On ground concrete slabs must be protected against rising damp. For example a plastic sheet below the concrete, or a moisture barrier such as ARDEX WPM 300 onto concrete substrate with sand broadcast over the second coat is required.

Prime the prepared concrete surface with ARDEX Multiprime using a brush or soft broom. Allow primer to touch dry prior to application of the levelling compound. If the substrate is extremely porous, 2 coats of primer may be required to prevent the formation of bubbles or pinholes in the ARDEX LQ 92. Allow the first coat of primer to dry prior to the application of the second coat.

DAMP OR GREEN CONCRETE

Prime with ARDEX WPM300 and broadcast sand. Apply one coat of ARDEX WPM300 by roller at 3m^2/litre. Whilst ARDEX WPM300 is still wet broadcast 0.5mm clean dry sand over the surface at ~700gms/m^2. Cure overnight and broom and vacuum excess sand off prior to applying smoothing cement. A single coat of ARDEX WPM300 applied at 3m^2 /litre acts as a moisture stop (green slab seal) for green concrete' not subject to rising damp or permanent moisture. Subfloors must be dry (AS 1884) and be a minimum of 10°C for successful installation. For further information contact ARDEX Technical Services.

MIXING

The amount of water used when mixing is critical. Ensure that the exact amounts are used.

The product should be used (poured and spread) within 10 minutes of mixing at 23°C. Do not mix more product than can be used within this time. Higher temperatures will reduce the workability. Ensure subsequent mixes are ready to enable continuous pouring.

Use 4 litres of clean water per 20kg bag of ARDEX LQ 92 powder. Pour the powder slowly into a clean, rust free bucket containing the water while continually mixing with a heavy duty, low speed mechanical paddle stirrer. Mix for approximately 2 to 3 minutes to achieve a smooth, lump free mixture. Do not aerate the mix by overstirring. Can be mixed with ARDEX Abalastic liquid when used with floor heating systems.

SPECIAL APPLICATIONS

Where ARDEX LQ 92 is applied in an area where a waterproofing membrane is required as per Australian Standard AS3740 this shall be applied above the ARDEX LQ92 and before the tiles are installed.

In external applications a waterproofing membrane must be applied above the ARDEX LQ 92.

BULKOUT

For thicknesses over 10mm aggregate can be used to bulk out the product. Add 20kg of ARDEX LQ 92 powder to 3.7L of water and mix for approximately 1 minute, then add 20kg of clean, dry, 2-5mm aggregate and mix for a further 2 minutes. After mixing with aggregate the flowing characteristics will be reduced.

RAMPING

For ramping, mix 20kg of ARDEX LQ 92 with 3.5L of water for approximately 1 minute. Then add coarse dried sand to achieve the desired workability of a trowelable, non-flowing screed (approx 10kg or 6.5L of 300 µm sand) and mix for a further 2 minutes.

OTHER HIGH STRESS LOCATIONS

In high stress locations such as those prone to vibration or extremes of temperature and for underfloor heating, ARDEX LQ 92 should be improved (adhesion and flexibility) with ARDEX Abalastic. In this situation firstly mix the 2.5L of ARDEX Abalastic with 2.5L of water in a bucket, then add 20kg of ARDEX LQ 92, mix normally. The flow, working and curing properties all remain the same.

FIXING TECHNIQUE

- Pour the mortar onto the primed substrate, always adding fresh to fresh mortar. Spread with a smoothing trowel (steel trowel) or stand up spreader and allow to smooth out. Do not attempt to float the setting surface.
- Allow at least 4 hours before the application of tiles.
- Incorporate movement joints using AS3958 as a guideline. Bring the movement joints through to the tile surface.
- If required, additional layers of ARDEX LQ 92 can be applied once the previous layer has hardened sufficiently (approx 4 hours at 23°C). Prime between layers.

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- Aggregate filled ARDEX LQ 92 should be applied in one layer to achieve the desired thickness and can then be topped with unmodified ARDEX LQ 92 (after adequate curing – approximately 4 hours) to give a smooth finish.
- Do not apply ARDEX LQ 92 in temperatures below 10°C or above 35°C. Protect the application of ARDEX LQ 92 from sunlight and wind until the material has set.

TECHNICAL PROPERTIES	
Mixing Ratio	4.0L per 20kg bag
Colour	Grey
Bulk Density of Powder	Approx 1.6kg/L
Coverage	3.8m² at 3mm
Weight of Fresh Mortar	2.1kg/L
Application Temperature	10°C to 35°C
Working Time	Approx 10 minutes
Tile Over After	Approx 4 Hours
Flow Diameter (EN 12706:1999)	130mm - 140mm

COMPRESSIVE STRENGTH	
After 1 day	Approx 12 MPa
After 3 days	Approx 16 MPa
After 7 days	Approx 20 MPa
After 28 days	Approx 24 MPa

FLEXURAL STRENGTH	
After 1 day	Approx 5 MPa
After 3 days	Approx 7 MPa
After 7 days	Approx 10 MPa
After 28 days	Approx 11 MPa

PACKAGING

ARDEX LQ 92 is packed in polylined paper sacks – net weight 20kg.

SHELF LIFE

ARDEX LQ 92 has a shelf life of 12 months when stored in the original unopened packaging, in a dry place at 23°C and 50% relative humidity.

SAFETY DATA

Causes skin reaction. May cause an allergic skin reaction. Causes serious eye Damage. May cause respiratory irritation. Suspected of causing genetic defects. Causes damage to organs through prolonged or repeated exposure.

Wear protective gloves, protective clothing, eye protection and face protection. Do not breathe dust/fume. Wash all exposed external body areas thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.

IF IN EYES: Rinse caustiously with water for several minutes. remove contact lenses, if present and easy to do. Continue rinising. If exposed or concerned: Get medical advice/ attention. Immediately call a doctor/physician/first aider. IF ON SKIN: Wash with plenty of water and soap. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Store locked up. Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation. Additional information is in the Safety Data Sheet (SDS) at **ardexaustralia.com** or **www.ardex.co.nz**

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GUARANTEE

ARDEX Australia Pty Ltd ("we" or "us") guarantees this product ("our goods") is free from manufacturing defects and will perform to any applicable specification published by us for 10 years from the date of purchase. Our liability under this guarantee is limited at our option to replacement of the product, repair of any damage to the immediate surface or area of application of the product, or compensation, in each case if we are satisfied loss or damage was due to a breach of this guarantee. This guarantee does not apply if damage or loss is due to failure to follow published instructions or any act or circumstance beyond our control, including shade variations and efflorescence. If you wish to make a claim under this guarantee you must notify us (ARDEX Australia Pty Ltd, 2 Buda Way, Kemps Creek, NSW 2178; Toll Free: 1800 224 070; Email: technicalservices@ardexaustralia.com) and provide evidence of your purchase of the product within 30 days of any alleged loss or damage occurring. We reserve the right to ask you for satisfactory evidence of any alleged loss or damage. Any claim under this guarantee is at your cost. This guarantee is in addition to any rights or remedies you may have as a "consumer" under the Australian Consumer Law and to that extent you need to be aware that: "Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss of damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure".

DISCLAIMER

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