



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

ARDEX Australia Pty Ltd
20 Powers Road
Seven Hills NSW 2147
Phone: 1300 788 780
Fax: 1300 780 102
Email: technicalservices@ardexaustralia.com
ardexaustralia.com

ARDEX New Zealand Ltd
15 Alfred Street
Onehunga, Auckland 1061
Phone: 0800 227 339
Fax: (03) 384 9779
Email: info@ardexnz.com
ardex.co.nz

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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 WPM300 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 3m² /litre. Whilst ARDEX WPM300 is still wet broadcast 0.5mm clean dry sand over the surface at ~700gms/m². Cure overnight and broom and vacuum excess sand off prior to applying smoothing cement. A single coat of ARDEX WPM300 applied at 3m² /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 LQ92 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.
- 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.

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PRECAUTIONS

This product is considered non-hazardous in normal usage. However the presence of cement in the product gives an alkaline mortar which may cause some irritation if prolonged contact with skin takes place.

Avoid contact with skin and eyes; in case of contact with the eyes, rinse immediately with plenty of water and seek medical advice; wear suitable gloves and keep the product out of the reach of children. Avoid generation of airborne dust during mixing.

For further material safety data, consult the latest Material Safety Data Sheet.

TECHNICAL PROPERTIES

Mixing ratio	Powder to water, 20kg to 4 litres
Form & Colour	Grey powder
Bulk Density	Approx 1.6kg/L
Coverage (20kg)	3.8m ² at 3mm bed thickness
Application temperature	10°C to 35°C
Working Time (+23°C)	Approx 10 mins
Tile Over After (+23°C)	Approx 4 hours
Compressive Strength (MPa)	
1 day	Approx 12
3 days	Approx 16
7 days	Approx 20
28 days	Approx 24
Flexural Strength (MPa)	
1 day	Approx 5
3 days	Approx 7
7 days	Approx 10
28 days	Approx 11
Mixed Specific Gravity	2.1kg/L
Flow Diameter (EN 12706:1999)	130mm - 140mm

STORAGE

Approx 12 months when stored in the original sealed packaging in a dry place at 23°C

PACKAGING

20kg polylined paper sacks

DISCLAIMER

The technical details, recommendations and other information contained in this data sheet are given in good faith and represent the best of our knowledge and experience at the time of printing. It is your responsibility to ensure that our products are used and handled correctly and in accordance with any applicable Australian Standards. Our instructions and recommendations are only for the uses they are intended. Users are advised to confirm that this product is suitable for their application and conforms with the specifications of the system. We also reserve the right to update information without prior notice to you to reflect our ongoing research and development program. Country specific recommendations, depending on local standards, codes of practice, building regulations or industry guidelines, may affect specific installation recommendations. The supply of our products and services is also subject to certain terms, warranties and exclusions, which may have already been disclosed to you in prior dealings or are otherwise available to you on request. You should make yourself familiar with them.

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