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# ARDEX LQ 92

## Under Tile Levelling Compound

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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 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.

### 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 over stirring. 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.

### 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.

### 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 DATA

<b>Mixing Ratio</b>	Powder to water, 20kg to 4 litres
<b>Form &amp; Colour</b>	Grey powder
<b>Bulk Density</b>	Approx 1.6kg/L
<b>Coverage (20kg)</b>	3.8m <sup>2</sup> at 3mm bed thickness
<b>Application temperature</b>	10°C to 35°C
<b>Working Time (+23°C)</b>	Approx 10 mins
<b>Tile Over After (+23°C)</b>	Approx 4 hours
<b>Compressive Strength (MPa)</b>	
<b>1 day</b>	Approx 12
<b>3 days</b>	Approx 16
<b>7 days</b>	Approx 20
<b>28 days</b>	Approx 24
<b>Flexural Strength (MPa)</b>	
<b>1 day</b>	Approx 5
<b>3 days</b>	Approx 7
<b>7 days</b>	Approx 10
<b>28 days</b>	Approx 11
<b>Storage</b>	Approx 12 months when stored in the original sealed packaging in a dry place at 23°C.
<b>Packaging</b>	20kg polylined paper sack
<b>Mixed Specific Gravity</b>	2.1kg/L
<b>Flow Diameter (EN 12706:1999)</b>	130mm – 140mm

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