**COVERAGE**

As a tile adhesive

Coverage for the Mini and Large kits of ARDEX Optima is based on a continuous bed thickness of the following depths:

<table>
<thead>
<tr>
<th>Bed</th>
<th>1mm bed</th>
<th>1.5mm bed</th>
<th>2mm bed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mini</td>
<td>2.7m²</td>
<td>1.7m²</td>
<td>1.2m²</td>
</tr>
<tr>
<td>Large</td>
<td>16m²</td>
<td>10m²</td>
<td>7m²</td>
</tr>
</tbody>
</table>

As a general guide, use a 6 x 6 x 6mm notched trowel for walls and 10 x 10 x 10mm notched trowel for floors. The coverage will vary depending on substrate condition, tile type and application technique.

As a primer over timber floor

1kg of mixed ARDEX Optima slurry is sufficient for approximately 1.6m² when applied on the floor with a pre-wetted 15mm nap roller.

**PACKAGING**

ARDEX Optima mini kit powder is packed in poly bags – net weight 1kg and liquid is packed in plastic container – net weight 1.7kg. ARDEX Optima large kit powder is packed in poly bags – net weight 6 x 5kg and liquid is packed in a plastic pail – net weight 10kg.

**SHELF LIFE**

ARDEX Optima has a shelf life of not less than 12 months when stored in the original unopened packaging, in a dry place at 23ºC and 50% relative humidity.

Pay attention to the following:

Excepting external grade plywood, timber is considered an unsuitable substrate for tiling in external situations due to moisture instability. Do not use ARDEX Optima over timber in external situations. Not suitable for use over tongued and grooved (strip) timber or chipboard.

The integrity of bitumen membranes cannot be guaranteed once tilled over and “bleeding” may occur. Bitumen is not considered a suitable surface to be tiled using ARDEX Optima. For setting of moisture sensitive natural stones, please refer to products in the ARDEX Natural Stone System. ARDEX Optima is not suitable for use over epoxies (except ARDEX WPM 300), polyurethanes and chlorinated rubber due to the ‘anti-adhesive’ nature of these products.

**SAFETY PRECAUTIONS**

This product is considered non-hazardous in normal usage. 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 eye protection and keep the product out of the reach of children. Avoid generation of airborne dust during mixing. If swallowed do not induce vomiting, give a glass of water and contact a doctor.

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

**TECHNICAL DATA**

**Colour:** White Powder/

**Mixing Ratio (Timber Primer):** 1 vol liquid : 2 vol powder

**Mixing Ratio (Tile Adhesive):** 1 vol liquid : 3 vol powder

**Application Properties at 23ºC and 50% RH**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Open Time</td>
<td>25 minutes</td>
</tr>
<tr>
<td>Adjustment Time</td>
<td>20 minutes</td>
</tr>
<tr>
<td>Grouting Time</td>
<td>8 hours</td>
</tr>
<tr>
<td>Put Life</td>
<td>45 minutes</td>
</tr>
</tbody>
</table>

**Underfloor Heating:** Yes

**Mechanical Properties (AS 4992)**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tensile Adhesion Strength after 28 days dry</td>
<td>1.0 - 2.0 MPa</td>
</tr>
<tr>
<td>Water immersion</td>
<td>1.0 - 2.0 MPa</td>
</tr>
<tr>
<td>Warm</td>
<td>1.0 - 2.0 MPa</td>
</tr>
<tr>
<td>Freeze Thaw</td>
<td>1.0 - 2.0 MPa</td>
</tr>
</tbody>
</table>

**Classification:** C2 T S2

**ARDEX Optima**

Two Part Premium Tile Adhesive

Exceptional bonding - suitable for use over a number of difficult to adhere to surfaces

Highly water resistant - will not deteriorate in constant water immersion applications such as swimming pools

Highly flexible - S2 classification

White - suitable for use with translucent tiles

High initial grab - reduces the need for support in wall tiling applications

Suitable for wall and floor tiling

For internal and external use

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**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 Standard, our instructions and recommendations and any laws or codes of practice relating to the use of our products. Our products are subject to change without notice. We do not accept responsibility or liability, whether in tort or contract, for any loss or damage caused by the use of products that have been altered or subjected to other than normal use or conditions. It is your responsibility to ensure that all products comply with the requirements of relevant building regulations or industry guidelines. The health and safety of our products and services is also subject to certain terms, warranties and exclusions, which may have already been disclosed to you in our product manuals or are otherwise available to you on request. You should consult the relevant latest Material Safety Data Sheet.

September 2008

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Internet: www.ardex.com
DESCRIPTION
ARDEX Optima is a premium grade two component wall and floor tile adhesive with exceptional adhesion qualities. The unique formula enables it to be used at a minimum 1mm bed thickness over many different substrates including difficult to adhere to surfaces such as metal, glassed ceramic tiles, roughened fibreglass and timber (particleboard only). ARDEX Optima is suitable for all types of ceramic tiles and moisture insensitive natural stone on internal or external, wall and floor applications and is also suitable for continuous immersion applications such as swimming pools.

ARDEX Optima has a high initial grab which reduces the need for support in wall tiling applications, and is classified as a highly flexible adhesive, S2 in accordance with AS 4992.

FOR FIXING (TILE TYPES)
- Fully vitrified and ceramic tiles, porcelain, concrete stone tiles e.g. terrazzo, natural stones (excluding moisture sensitive), glass and porcelain mosaics.
- Brick and blockwork
- Autoclaved Aerated Concrete (AAC)
- Post Tension Anchored Concrete
- Concrete
- As concrete exhibits drying shrinkage, allow this to elapse prior to fixing the tiles. Prime porous substrates with ARDEX Multiprime.

TO (SUBSTRATES)
- Brick and blockwork
- Tilt up and pre-cast concrete, mechanically prepared concrete, aerated concrete and cement renders
- Powder coated cladding, galvanised, stainless steel (degreased) and brass
- ARDEX liquid applied underfloor waterproofing membranes and Butynol
- Medium density fibre-cement sheet, compressed fibre-cement sheets and plastersheet
- Roughened fibreglass

SUBSTRATE PREPARATION
The substrate adhered to must be clean, firm and free of dust, dirt, oil, grease, curing compounds, release agents and other barrier materials, as well as being strong enough to support the weight of the tiles being fixed. Ensure surfaces are dry before tiling, with no residue or permanent damp. Ensure that the substrate’s required drying time, as given in the relevant part of AS 3958, is allowed to elapse prior to fixing the tiles. Prime porous substrates with ARDEX Multiprime.

Concrete
This includes precast, in-situ and wood floated concrete. As concrete exhibits drying shrinkage, allow to cure for at least 4 weeks prior to tiling. Any surface laitance, concrete sealers, curing compounds, and other materials should be removed from the surface prior to tiling. The surface should be true and level and pitched to drains where required. The concrete should have adequate surface profile (e.g. broom finish) to provide a mechanical key. Smooth surfaces and/or dense concrete greater than 35MPa must be mechanically prepared prior to tiling.

Cement Render/Screeds
New renders and screeds should be finished with a wood float to the required surface regularly. Allow render/screeds to cure for 7 days prior to tiling.

Plasterboard/Medium Density Fibre-Cement Sheet
Provided that these boards are firmly and rigidly fixed to adequately support the tile bed, tiles can be fixed directly. Please ensure the surface is completely clean. Priming with ARDEX Multiprime is recommended over fibre-cement sheets, followed by taping of sheet joints with PVC ducting tape. Priming is not usually necessary for plasterboard except when a jointing compound is used, the compound should then be primed with ARDEX Multiprime.

Compressed Fibre-Cement Sheet
Internal Application
These sheets must be fixed strictly in accordance with manufacturer’s instructions and be deemed suitable for the application by the manufacturer. Tiling over compressed fibre-cement sheets for external flooring applications should be carried out as per manufacturer’s recommendations and Australian Standard AS 3958.

Existing Ceramic Tiles
These include sound, clean, glazed and unglazed tiles. If the area to be tiled is internal, tiles can be directly fixed using ARDEX Optima without mechanically grinding the glaze, following cleaning with sugar soap using an industrial grade scourer. Rinse and allow to dry. In permanently wet areas and externally, consult ARDEX Technical Services.

Autoclaved Aerated Concrete (AAC)
Remove loose parts and fill voids. Apply two coats of ARDEX Multiprime and allow to dry.

Existing Vinyl Tiles
Ensure tiles are well bonded to the substrate. Remove wax, polish and any loose tiles. Clean with sugar soap using an industrial grade scourer. Rinse and allow to dry. In permanently wet areas and externally, consult ARDEX Technical Services.

Metal Surfaces
Remove rust and mill scale mechanically and any oil or grease with a solvent cleaner. Galvanised metal should be cleaned using high pressure water and scrubbing with a stiff broom. Prime with an appropriate metal primer.

Painted Surfaces
Thoroughly remove painted surfaces mechanically, do not use paint stripper or solvents. Allow surface to dry after cleaning.

Blockwork and Brickwork
Brickwork and blockwork must be sound, flush and level. Brickwork must be rendered, where the surfaces are not smooth and level the wall must be rendered. Ensure all voids and raked out mortar joints are filled and excess mortar pared back. Prime with ARDEX Multiprime.

Butynol
Butynol must be cleaned to remove any dust or contaminants using ARDEX WPM 290. If more stubborn soils remain, contact ARDEX Technical Services for advice. Allow surface to dry before the commencement of tiling. Use a 12mm notched trowel to achieve a dry bed thickness of not less than 2.5-3mm.

Fibreglass
Gel coat must be removed to expose at least 80% of raw fibre. Remove loose dust and allow to dry prior to tiling. Not suitable for preformed shower bases, spas or underwater applications.

ARDEX Liquid Applied Undertile Waterproofing Membranes
ARDEX undertile waterproofing must be applied according to instructions and thoroughly dry prior to tiling.

MIXING
The mixing ratio of ARDEX Optima is 1 part liquid (by weight or volume) to 3 parts powder (by weight). The unit is broken into six equal components for accurate measurement. That is, 1.7 litres liquid to 5kg powder. Stir the ARDEX Optima liquid thoroughly and pour the accurate measure into a suitable clean plastic container. Add ARDEX Optima powder to the liquid whilst stirring with a mechanical paddle type mixer. Stir until both parts are homogenously mixed. Allow the mixture to stand for 2 minutes and rest before use.

For use as a primer over timber floors with ARDEX X56, mix 2 parts ARDEX Optima (powder) to 1 part ARDEX Optima (liquid) as above. Pre湿 a 15mm nap (spaghetti) roller with the ARDEX Optima slurry before applying a thick coat of slurry over the timber substrate. Allow the slurry coat to dry fully before tiling over.

The pot life of the mixed mortar is approximately 45 minutes at 23°C and 50% relative humidity; do not mix more material than can be used within that time. Re-stirring the mixture can be carried out up until the pot life has expired. Do not add more liquid to reinvigorate the mix.

FIXING TECHNIQUE
Before fixing ensure the substrate has been prepared and the tiles are free from dust. Tiles should be fixed in accordance with AS 3958. Rough and uneven surfaces can be smoothed with ARDEX Optima; the surface must be left to dry before the tile installation can take place. Note: The total bed thickness must not exceed 8mm, which is applied in two layers of 4mm, including the final bed of adhesive used to fix tiles.

Substrate surface, type and size of the tiles will determine the selection of the trowel. As a general guide use a 6 x 6 x 6mm notched trowel for walls and 10 x 10 x 10mm notched trowel for floor tiling. ARDEX Optima can be applied at a bed thickness greater than 1mm or less than 8mm. Note: Apply at a minimum 2mm bed thickness over particleboard, brick, blockwork and A/C. The tiles must be pressed firmly into the freshly combed mortar bed to ensure good contact with the mortar. Slide the tile at right angles to the notch pattern to ensure 100% coverage on the back of the tile. Tiles with ribbed or keyed back profiles should also be buttered to ensure complete coverage. Lift a tile from time to time to check that there are no voids beneath the tile. Do not spot fix. Any surplus adhesive must be removed from the surface of the tile and joints, before the adhesive sets.

ARDEX Optima has an open time of 25 minutes, and an adjustment time of approximately 20 minutes. Be aware of site conditions when considering these times and only apply adhesive so that the tiles can be fixed while the mortar is still wet. All tools should be cleaned with water immediately after use.

MOVEMENT JOINTS
Movement joints must be in accordance with AS 3958.

GROUTING
Grouting can proceed once the tile bed has hardened sufficiently so that tiles will not be dislodged. Light foot traffic and grouting may be allowed after approximately 8 hours and full traffic after approximately 24 hours at 23°C and 50% relative humidity. Allow longer for dense tile substrates, humid climates and low temperatures.

The tile joints should be grouted with the appropriate ARDEX grout. Where movement is anticipated, mix the grout with ARDEX Grout Booster.

ARDEX Optima
Two Part Premium Tile Adhesive
DESCRIPTION
ARDEX Optima is a premium grade two component wall and floor tile adhesive with exceptional adhesion qualities. The unique formula enables it to be used at a minimum 1mm bed thickness over many different substrates including difficult to adhere to surfaces such as metals, glazed ceramic tiles, roughened fibreglass and timber (particleboard only). ARDEX Optima is suitable for all types of ceramic tiles and moisture insensitive natural stone on internal or external, wall and floor applications and is also suitable for continuous immersion applications such as swimming pools.

ARDEX Optima has a high initial grab which reduces the need for support in wall tiling applications, and is classified as a highly flexible adhesive, S2 in accordance with AS 4992.

FOR FIXING (TILE TYPES)
Fully vitrified and ceramic tiles, porcelain, concrete stone tiles e.g. terrazzo, natural stones (excluding moisture sensitive), glass and porcelain mosaics.

ARDEX Optima can also be used as a primer when tiling over timber with ARDEX X56.

TO (SUBSTRATES)
Brick and blockwork
Tilt up and pre-cast concrete, mechanically prepared prior to tiling. ARDEX undertile waterproofing must be applied according to instructions and thoroughly dry prior to tiling.

Plasterboard/Medium Density Fibre-Cement Sheet
These sheets must be fixed strictly in accordance with the manufacturer’s instructions and be deemed suitable for the application by the manufacturer. Tiling over compressed fibre-cement sheets for external flooring applications should be carried out as per the manufacturer’s recommendations and Australian Standard AS 3958.

Existing Ceramic Tiles
Internal Applications
These sheets must be fixed strictly in accordance with manufacturer’s instructions and be deemed suitable for the application by the manufacturer. Tiling over compressed fibre-cement sheets for external flooring applications should be carried out as per sheet manufacturer’s recommendations and Australian Standard AS 3958.

Existing Tiles
These include sound, clean, glazed and unglazed tiles. If the area to be tiled is internal, tiles can be directly fixed using ARDEX Optima without mechanically grinding the glaze, following cleaning with sugar soap using an industrial grade scourer. Rinse and allow to dry. In permanently wet areas and externally, consult ARDEX Technical Services.

Autoclaved Aerated Concrete (AAC)
Remove loose particles from the surface. Apply two coats of ARDEX Multiprime and allow to dry. Optima can be applied at a bed thickness greater than 2.5mm.

Concrete
This includes precast, in-situ and wood floated concrete. As concrete exhibits drying shrinkage, allow to cure for at least 4 weeks prior to tiling. Any surface laitance, concrete sealers, curing compounds, and other materials should be removed from the surface prior to tiling. The surface should be true and level and pitched to drains where required. The concrete should have adequate surface profile (e.g. broom finish) to provide a mechanical key. Smooth surfaces and/or dense concrete greater than 35MPa must be mechanically prepared prior to tiling.

Cement Render/Screeds
New renders and screeds should be finished with a wood float to the required surface regularly. Allow render/screeds to cure for 7 days prior to tiling.

Plasterboard/Medium Density Fibre-Cement Sheet
Provided that these boards are firmly and rigidly fixed to adequately support the tile bed, tiles can be fixed directly. Please ensure the surface is completely clean. Priming with ARDEX Multiprime is recommended over fibre-cement sheets, followed by taping of sheet joints with PVC ducting tape. Priming is not usually necessary for plasterboard except when a jointing compound is used, the compound should then be primed with ARDEX Multiprime.

Compressed Fibre-Cement Sheet
Internal Applications
Fixing technique
The tiles must be pressed firmly into the freshly combed mortar bed to ensure good contact with the mortar. Slide the tile to the right angles to the notch pattern to ensure 100% coverage on the back of the tile. Tiles with ribbed or keyed back profiles should also be butted to ensure complete coverage. Lift a tile from time to time to check that there are no voids beneath the tile. Do not spot fix. Any surplus adhesive must be removed from the surface of the tile and joints, before the adhesive sets. ARDEX Optima has an open time of 25 minutes, and an adjustment time of approximately 20 minutes. Please be aware of site conditions when considering these times and only apply adhesive so that the tiles can be fixed while the mortar is still wet. All tools should be cleaned with water immediately after use.

Movement Joints
Movement joints must be in accordance with AS 3958.

GROUTING
Grouting can proceed once the tile bed has hardened sufficiently so that tiles will not be dislodged. Light foot traffic and grouting may be allowed after approximately 8 hours and full traffic after approximately 24 hours at 23°C and 50% relative humidity. Allow longer for dense tiles/substrates, humid climates and low temperatures.

The tile joints should be grouted with the appropriate ARDEX grout. Where movement is anticipated, mix the grout with ARDEX Grout Booster.

FIXING TECHNIQUE
Before fixing ensure the substrate has been prepared and the tiles are free from dust. Tiles should be fixed in accordance with AS 3958. Rough and uneven surfaces can be smoothed with ARDEX Optima; the surface must be left to dry before the tile installation can take place. Note: The total bed thickness must not exceed 8mm, which is applied in two layers of 4mm, including the final bed of adhesive used to fix tiles.

Substrate surface, type and size of the tiles will determine the selection of the grout. As a general guide use a 6 x 6 x 6mm notched trowel for walls and 10 x 10 x 10mm notched trowel for floor tiling. ARDEX Optima can be applied at a bed thickness greater than 1mm or less than 8mm. Note: Apply at a minimum 2mm bed thickness over particleboard, brick, blockwork and AIG.

ARDEX Liquid Applied Undertile Waterproofing Membranes
ARDEX undertile waterproofing must be applied according to instructions and thoroughly dry prior to tiling.

Mixing
The mixing ratio of ARDEX Optima is 1 part liquid (by weight or volume) to 3 parts powder (by weight). The unit is broken into six equal components for accurate measurement. That is, 1.7 litres liquid to 5kg powder. Stir the ARDEX Optima liquid thoroughly and pour the accurate measure into a suitable clean plastic container. Add ARDEX Optima powder to the liquid whilst stirring with a mechanical paddle type mixer. Stir until both parts are homogenously mixed. Allow the mixture to stand for 2 minutes and rest before use.

For use as a primer over timber floors with ARDEX X56, mix 2 parts ARDEX Optima (powder) to 1 part ARDEX Optima (liquid) as above. Pre wet a 15mm nap (sponge) roller with the ARDEX Optima slurry before applying a thick coat of slurry over the timber substrate. Allow the slurry coat to dry fully before tiling over.

The pot life of the mixed mortar is approximately 45 minutes at 23°C and 50% relative humidity; do not mix more material than can be used within that time. Re-stirring the mixture can be carried out up until the pot life has expired. Do not add more liquid to reinvigorate the mix.
As a primer over timber floor

ARDEX Optima is based on a continuous bed thickness of the

Coverage for the Mini and Large kits of ARDEX

As a tile adhesive

COVERAGE

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As a primer over timber floor

1kg of mixed ARDEX Optima slurry is sufficient for

Coverage will vary depending on substrate condition, tile type and application technique.

PACKAGING

ARDEX Optima mini kit powder is packed in poly bags – net weight 5kg and liquid is packed in plastic container – net weight 1.5kg. ARDEX Optima large kit powder is packed in poly bags – net weight 6 x 5kg and liquid is packed in a plastic pail – net weight 10kg.

SHELF LIFE

ARDEX Optima has a shelf life of not less than 12 months when stored in the original unopened packaging, in a dry place at 23°C and 50% relative humidity.

Pay attention to the following:

Excepting external grade plywood, timber is considered an unsuitable substrate for tiling in external situations due to moisture instability. Do not use ARDEX Optima over timber in external situations. Not suitable for use over tongued and grooved (strip) timber or chipboard.

PACKAGING

The integrity of bitumen membranes cannot be guaranteed once tiled over and “bleeding” may occur. Bitumen is not considered a suitable surface to be tiled using ARDEX Optima.

For setting of moisture sensitive natural stones, please refer to products in the ARDEX Natural Stone System.

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This product is considered non-hazardous in normal usage. 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 eye protection and keep the product out of the reach of children. Avoid generation of airborne dust during mixing. If swallowed do not induce vomiting, give a glass of water and contact a doctor.

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

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Colour:</th>
<th>White Powder/ Milky White Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mixing Ratio (Timber Primer):</td>
<td>1 vol liquid:2 vol powder</td>
</tr>
<tr>
<td>Mixing Ratio (Tile Adhesive):</td>
<td>1 vol liquid:3 vol powder</td>
</tr>
</tbody>
</table>

Application Properties at 23°C and 50% RH

| Open Time: | 25 minutes |
| Adjustment Time: | 20 minutes |
| Grouting Time: | 8 hours |
| Put Life: | 45 minutes |
| Underfloor Heating: | Yes |

Mechanical Properties (AS 4992)

| Tensile Adhesion Strength after 28 days dry: | 1.0 - 2.0 MPa |
| Water immersion: | 1.0 - 2.0 MPa |
| Warm: | 1.0 - 2.0 MPa |
| Freeze Thaw: | 1.0 - 2.0 MPa |
| Classification: | C2 T S2 |

For internal and external use

Exceptional bonding - suitable for use over a number of difficult to adhere to surfaces

Highly water resistant - will not deteriorate in constant water immersion applications such as swimming pools

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White - suitable for use with translucent tiles

High initial grab - reduces the need for support in wall tiling applications

Suitable for wall and floor tiling

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Two Part Premium Tile Adhesive

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September 2008