

'World of Ardex'



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Issue 5
Australia and New Zealand Edition

Ardex specified in World Class Spa



The team at Ardex like to hear from our customers - write to us with questions about our products or tell us about your experiences using Ardex - simply mail your questions and stories with your name and telephone details to the marketing department at the Australian or New Zealand Head Office and we will send you a \$100 gift card when your question/story is published.

Articles this issue...

Projects

- Ardex specified in World Class Spa
- Nick Scali Furniture
- TPO Roofing for Queenstown Hotel
- First tile laid in London 2012 Olympic Swimming Pool

Products

- DS 40
- Microtec Technology X 77
- X 78
- A 45

Other News...

- Frequently Asked Questions
- Ardex Guarantee
- Honestone PANDOMO Showroom



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Ardex specified in World Class Spa

A world class spa and fitness resort in Queensland had to be particularly diligent in its selection of finishes, adhesives and waterproofing due to the ground-breaking nature of some of its facilities.

The multi-million dollar, five-star Noosa Springs Day Spa and Fitness Centre at Noosa Springs Resort, Noosa Heads boasts a purpose-built hydro massage pool, a revolutionary floatation pool, steam room, blitz showers, infrared saunas and lap pool – to name just a few of the idyllic and innovative treatments and facilities available.



Pictured above: Welcome to Noosa Springs Day Spa and Fitness Centre.

The hydro massage pool for example (pictured front page), uses underwater jets to massage the skin and stimulate the circulation plus rounded pebbles set into parts of the floor to massage the soles of the feet when walking.

The floatation pool is the only one of its kind in Australia – it takes up a whole room instead of the conventional ‘tank’ size, therefore removing any sense of claustrophobia some people experience when using the traditional style. It also contains a high concentration of dissolved chemicals and minerals (particularly magnesium sulphate) that are known to damage Portland Cement based structures.

So the challenges for waterproofing membranes, tile adhesives and grouts were immense. Developer Starco Developments Pty Ltd selected Ardex Australia to develop and supply numerous products for the project that would not only perform well but also provide longevity and speed the installation process.

Waterproofing membranes such as the water-based epoxy ARDEX WPM 300 were chosen for its superior water resistant qualities and its ability to prevent efflorescence and withstand hydrostatic pressure. This product is a two-component water-based epoxy polyamide membrane/barrier coating that is so benign it can even be used to contain potable water. It is also recognised as providing excellent adhesion to most substrates, including damp surfaces and freshly laid green concrete, allowing it to be used as a one coat primer for other applied finishes such as the Ardex waterproofing membranes and tiling adhesives.

The ARDEX WPM 002 is a two-component undertile waterproofing membrane that proved indispensable in ensuring fast installation – it is recognised as one of the fastest drying acrylic membranes on the market and can be tiled over within 16 to 24 hours at ambient temperatures of 23°C. It also benefits from the most advanced acrylic polymer technology, making it totally resistant to re-emulsification. And being liquid reinforced there is no need of a reinforcing mat – saving on installation time and labour.

Products such as ARDEX STS 8, a superior tensile strength tile adhesive, was specified for its ability to improve the adhesion of heavy, large-format wall tiles (especially fully vitrified) that are otherwise prone to lipping and slumping. Added to this, when necessary, was ARDEX E 90, an admix for cement-based tile adhesives that ensures the adhesive is sufficiently water repellent for showers and pools.

In a facility of this kind a specialist grout is essential – Abapoxy Grout was selected for its resistance to chemicals. This product has been developed by Ardex for situations requiring strict hygiene standards. It is completely solvent free and suitable for walls and floors.



Pictured above: Lap Pool.

All of the Ardex components contributed to a finish of world class standard in a facility that, at this stage, is without peers. These products were expertly applied as part of the Ardex system solution by teams led by Neil Thorburn of Thorburn Tiling and Warren Sandford of M&M Waterproofing.

The Ardex products used all have low VOC content and meet Green Building Council of Australia Green Star IEQ-13 requirements.

Pictured front page: Noosa Springs Day Spa and Fitness Hydro Massage Pool.

ARDEX DS 40 Impact Sound Reduction

The dream of quiet, serene luxury apartments and hotel rooms has been at the forefront of all our hopes at some stage. Now Ardex Australia can contribute to fulfilling these dreams with a new, easily installed acoustic barrier.

ARDEX DS 40 Impact Sound Reducing System comes with a wealth of features that are designed to make the installation of an effective sound reduction system as simple as possible...

- Pre-cut mats - simplifying handling and installation.
- Low build height - minimum of 4.5mm.
- Tile direct - tile directly over using Ardex adhesives.
- Provides a crack bridging function - allowing safe installation onto critical substrates.

On top of this, Ardex provide a complete, compatible system solution that enables you to install an effective sound proofing solution from the concrete substrate to the finished tiles using only one supplier.

With all Ardex products being manufactured to strict quality control procedures, you are guaranteed a premium finish suitable for any project.



Pictured left: ARDEX DS 40 mats are pre-cut into 750mm x 500mm x 4.5mm for ease of installation.

Pictured right: ARDEX DS 40 pre-cut mat installation with AF 266 an indoor and outdoor grass carpet adhesive.



ARDEX MICROTEC Technology

ARDEX Microtec Technology is a unique binding matrix made up of exclusive Ardex materials, exclusive special cements and polymers, combined with high performance micro fibres which improves adhesive strength, reduces the effect of shear strain and stress on Ardex tiling systems.

MICROTEC



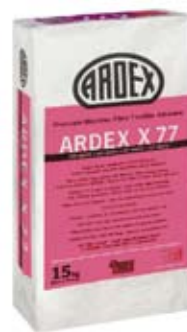
Microtec Technology is a superior tiling system providing:

- Significantly higher bond strength than the standard requires when wet or dry.
- Increased safety in tiling systems as the adhesive can withstand extreme strain and stress.
- Three dimensional binding matrix that offers more avenues to disperse stress and strain.

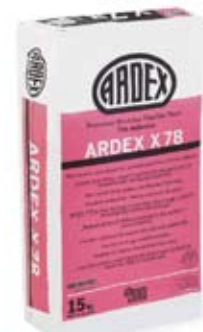
MICROTECH TECHNOLOGY - ARDEX X 77 and X 78.
Adhesives that are EASIER TO USE, GIVE BETTER RESULTS and ensure a more SECURE TILING SYSTEM.



Pictured above: (left) Cracked adhesive without Microtec Technology (right) Cracked adhesive with Microtec Technology.



ARDEX X 77 is flexible - X 77 can be used over early age concrete/screeds and render, it's ideal for swimming pools and wet areas because it is water and frost resistant. It gives you double extended open time, double slump resistance and a high yield.



ARDEX X 78 is perfect for large format floor tiling. The creamy, pourable consistency makes it easier to trowel, ensures solid bedding and tile coverage without the need to butter the tile back reducing lipping.

Nick Scali Furniture Showroom, Alexandria, Sydney.

The Nick Scali Furniture Showroom in Alexandria was architecturally designed and finished with the highest quality floor finishes to display the contemporary design of Nick Scali's furniture range.

Concrete Artisans was the main flooring contractor and supported by Honestone installed a range of Ardex sub-floor preparation and PANDOMO products on the 1400m² project.

Prior to pouring the floor there was considerable preparation to be done in terms of grinding the existing concrete sub-floor, patch repairs and all over priming. The installation itself was divided into sections, making the whole area a combination of four slightly smaller areas.

This allowed the contractors to pour the product in manageable areas and maintain the quality of the installation. On the day it was poured, there was approximately 8-9 men on site, with 4-5 men mixing and supplying the product to the others who would trowel out the material.



Pictured above: Nick Scali 1400m² showroom.

Quick, clean and efficient work is required on such installations as the window for creating that perfect floor finish is very narrow. It is also vital to have consistency in the mixing of the product, which contained some PANDOMO CC black dye mixed with the water, to ensure a consistent colour across the floor.

Once the floor was installed and dry, the contractors had to make saw cuts to follow the pattern of the ceiling structure. In total, they had to make approximately 4km of saw cuts in the floor. This was then followed by filling the joints with a coloured polyurethane, which required 8km of taping either side of the saw cut to prevent material getting on the surface and 4km of joint filling.

The floor was polished and sealed before hand over to very happy Nick Scali Furniture staff.



Pictured above: The floor featuring the saw cuts.

Honestone PANDOMO Showroom, Central Coast, NSW.

Honestone specialises in polished concrete, concrete floor preparation, industrial flooring and specialty decorative flooring for the construction industry as well as projects in the commercial, retail and industrial sector.

Honestone recently opened a PANDOMO Showroom on the Central Coast in New South Wales - presently the only one of it's kind in Australia.

The showroom displays the unique range of PANDOMO colours and textures - PANDOMO is a unique, contemporary style for concrete floors and feature walls.



Pictured above: Honestone PANDOMO Showroom

ARDEX A 45 - Rapid Hardening & Drying Internal Repair Mortar

ARDEX A 45 is a rapid setting and drying, slump-free mortar for internal repairs.

The mortar dries and hardens rapidly to give a repair of exceptional strength and hardness. The mixed mortar sets after 15 minutes and can be trafficked after 1½ hours at 20°C.

A 45 is ideal for:

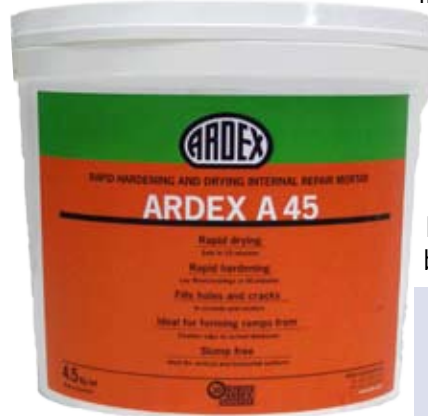
- **repairing and refacing internal concrete stair treads and risers, cement/sand screed concrete floors.**
- **filling and patching cracks in walls, ceilings, soffits.**
- **making good around door and window frames, around pipework.**
- **forming ramps from feather edge to normal screed thicknesses**
- **forming coves prior to applying insitu resin floorings.**

However, a suitable covering/coating is required if used as a wearing surface.

To repair holes, cracks and damaged areas apply the mortar with a trowel, ensuring that the mortar 'wets' the surface by trowelling in firmly, leaving the repair proud.

After about 15 minutes you simply trim off the excess and finish it off with a wet trowel, sponge or sponge float to obtain a smooth surface. As soon as the repair has hardened, the surface of the floor, stair tread etc., can be levelled, if necessary with Ardex sub-floor levelling cement.

For smoothing and refacing, apply the mixed mortar with a trowel to the required thickness taking into account the short working time. The material may be finished with a wet trowel after 15 – 20 minutes to provide a finish suitable for direct application of floor coverings. High aggregate content mixes may require a second application of 'neat' ARDEX A 45.



ARDEX A 45 is packed in paper sacks that include a polythene liner and is available in 20kg bags and now in a 4.5kg pail.

**ARDEX
A 45
now available in
4.5kg pails!**

Ardex New Zealand - TPO Roofing for Queenstown Hotel

The Scenic Circle Aurum Hotel & Suites, located in the South Island tourist capital of Queenstown is currently being waterproofed in an environmentally friendly and energy efficient membrane roofing system, ARDEX TPO.

ARDEX TPO is being overlaid on a 10 year old bitumen roof as part of a refurbishment programme for the whole hotel. ARDEX TPO in Grey was chosen due to superior seam strength from the heat welded laps. ARDEX TPO provides a complete welded sheet from one end of the roof to the other.

A team of 3 applicator companies from Invercargill, Christchurch and Queenstown are working on the project, using their shared knowledge and experience.



DEVASTATING QUAKE ROCKS CHRISTCHURCH

Almost 6 months after a 7.1 magnitude earthquake hit the Canterbury region, nature dealt a cruel blow to the recovering city. On Tuesday 22nd February 2011 at 12:51pm, a 6.3 magnitude earthquake caused havoc in the city where Ardex New Zealand is based. With over 150 lives lost, homes reduced to rubble and basic services such as water, power and sewerage being destroyed, this quake (while lesser in magnitude) was much more powerful than the September 2010 quake. Located only 2km beneath the ground and with an epicentre in Lyttelton, the Ardex Christchurch team experienced the terrifying quake in the nearby suburb of Woolston, where the factory and offices lie.

We have been extremely fortunate in the Ardex Christchurch family that all of our staff and their loved ones have survived this tragedy. We are shaken and some have lost their homes as well as their possessions.

Regular operations resumed quickly as the offices and factory made it through the quake remarkably well. Ardex New Zealand Ltd remains committed to providing customers with superior service and products and will maintain that focus as we become part of the re-build of Christchurch in the coming months.

Pictured left: ARDEX TPO installation on the Scenic Circle Aurum Hotel roof.

Your Questions Answered

Q: What adhesives can I use to tile over an acrylic waterproofing membrane?

A: If the membrane is ARDEX WPM 001, WPM 002 or WPM 155 you can use several Ardex adhesives including X 77, Optima, X 56, ABAFLEX, MPP, STS8 plus E 90 and more.

The most appropriate adhesive should be determined by the size and type of tile used and whether the application is a shower recess, external deck or swimming pool.

If the membrane is produced by another company then the above adhesives should adhere to the membrane but Ardex Australia will not Warrant or Guarantee their adhesives over these membranes.

Q: What adhesives can I use to tile over a Polyurethane membrane?

A: Ardex Australia does not recommend any adhesive in the range to stick directly to any Polyurethane membrane including ARDEX WPM 157.

The only modified Polyurethane membrane that Ardex Australia would recommend their adhesives to stick directly to, is ARDEX WPM 155.

Please contact the manufacturer of the Polyurethane membrane for their adhesive recommendations.



Ardex Australia Product Guarantee

The value of a manufacturer's product warranty or guarantee varies enormously and its value cannot be judged by the period it is valid for, but by what it covers during the period.

The Ardex Australia Guarantee or Warranty covers the:

- repair or replacement of the product PLUS;
- the costs of re-installation of the product PLUS;
- the costs of replacement of any immediate covering such as tiles or carpet.

Some manufacturers only cover the replacement of the material (eg waterproof membrane) which they then discount by the years the defective material had been installed.

The cost of a floor leveller, waterproof membrane, tile adhesive and grout represents a very small percentage of the total costs of any repair job resulting from a manufacturer's defective product. A guarantee or warranty that only insures the job for repair and/or replacement of the defective product (ie. waterproof membrane), regardless of what period it may be, is next to worthless.

So next time you consider a product guarantee, make sure you look past the term of the guarantee and into what it covers.

Contact your Ardex Representative or State Office for a standard 10 Year Ardex Product Guarantee (for one product only) to be mailed to you.

Alternatively, if you require a Guarantee for a specific project where one product or a standard combination of products have been used you need to complete a Product Warranty Request Form which is available from your State Office.

This request form requires you to complete a) project address, details of who the guarantee will be issued to, the start and end date of the product installation b) description of the area including the size and the Ardex product used c) confirmation that the products have been installed in accordance with Ardex' recommendations and specifications.

For an extended Guarantee or one that includes installation of non-standard product combinations (ie. product combinations that are not detailed in our published data sheets) you need to contact the Ardex Australia Technical Services Department prior to the installation for our best recommendations.



Singapore Offshore Project

Ardex Singapore recently supplied products for an offshore floatel, located in the Soloman Islands, the Superior.

The floatel measures 94m in length, 64.5m wide and 35.2m high and has accommodation for 440 men.

Working with the main contractor, the vessel took over 18 months to complete and a number of Ardex products were specified in the following quantities:

- ARDEX K 15 - 175 tonnes
- ARDEX E 25 - 15 tonnes
- ARDEX A 45 - 2.5 tonnes
- ARDEX WA - 1.5 tonnes
- ARDEX P 82 - 1.0 tonnes



Ardex part of the preparations for London 2012

The first tile in the London 2012 Olympics swimming pool complex has recently been laid by world swimming champion and Olympic medallist Mark Foster. Designed by Pritzker Prize winning Architect Zaha Hadid, the centre is located in the Olympic Park at Stratford in East London. With its distinctive architecture and curved roof, it will be the first venue visitors see upon entering the Olympic Park.

Some 180,000 tiles will line the 50m (164 ft) competition pool, plus the training and dive pools. To date, Ardex have supplied:

- ARDEX X 77 - 50 tonnes
- ARDEX Grout - 2 tonnes
- ARDEX S7 - 340 units
- ARDEX Two Part Waterproof Membrane - 120 units

Ardex has also won the specification for 100,000 sqm of Ardex screed on Europe's largest infrastructure project - a new high frequency, convenient and accessible railway for London and the South East.

In addition to widespread success in the transport sector, Ardex has recently secured specifications in Marks and Spencer retail outlets, as well as McDonalds Restaurants.



Pictured above: An artists impression of the London 2012 Olympic Swimming Complex.



Ardex Technical Services

Ardex is committed to providing the highest level of technical support – from product training to customised system recommendations. Ardex have a dedicated team of technical experts based at our head office in Seven Hills to help you at any stage with:

- System recommendations
- Problem investigation

If you need help with anything out of the ordinary, if we don't already have the answer Technical Services will investigate it for you.

The team can be contacted on:

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Toll Free: 08002ARDEX
0800 227 339
Email: techinfo@butynol.co.nz

Australia
Phone: 1800 224 070
Fax: (02) 9838 7817
Email: techinfo@ardexaustralia.com

Ardex Data Sheets

Ardex Data Sheets provide users with invaluable information for correct installation and mixing procedures for each product.

If you would like any Technical Datasheets, they can be found on our website at www.ardexaustralia.com or alternatively emailed or mailed to you – please contact Lyn Cridland on (Aust) 02 9851 9166 or email: lyn.cridland@ardexaustralia.com

Training and Professional Development

Please call your local Ardex office for information on upcoming Waterproofing, Tiling and Flooring workshops.

Sales Office Contacts

Your local sales office can help with any requests for Technical Data Sheets, in addition to stock questions, Material Safety Datasheets and pricing.

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Ardex aims to provide its customers with premium products and services. To achieve this, we aim to make efficient use of the personal information we collect or hold.

In doing so, we also want our customers to have complete confidence that any information collected or held will not be mistreated. Ardex is committed to ensuring all personal information held will remain confidential and have established a Privacy Policy which recognises this. The Privacy Policy can be found on the Ardex Australia website or alternatively phone (02) 9851 9166 and a copy will be mailed to you.

Further to this, Ardex will handle all personal information in accordance with the Privacy Policy Act 1988, National Privacy Principles.

If you do not want to receive further editions of the 'World of Ardex' please complete your name and address details below and return it to the Marketing Department, Ardex Australia, Reply Paid 796, Seven Hills, NSW, 2147 (no postage stamp required if posted in Australia).

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IMPORTANT

The articles in the 'World of Ardex' are colour coded. Information on projects are under a red heading, whilst information on products have a blue heading and other news is located under a yellow heading - please refer to the front page.