

'World of Ardex'



June 2011

Issue 6
Australia and New Zealand Edition

Ardex reaches for the sky on the Gold Coast



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.

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www.ardex.com

Ardex TPO makes Launceston's Tallest Building Watertight.

Continuous leaks, numerous failed attempts at remedial work and concrete cancer had left Launceston's tallest building, the Myer Building in Brisbane Street Mall, in a serious state of degradation. Several contractors using a variety of technologies had failed to remedy the problem of the leaking roof membrane and by 2010 the leaks had led to the spread of concrete cancer throughout the top four storeys of the building.

Further complications were the multi-layered finish of waterproofing products left on the roof from previous unsuccessful attempts at fixing the leaks. These included asbestos-filled bitumen torch-on sheets and HDPE membranes. There were also a collection of mobile telephone towers and safety balustrades present that were responsible for a further 220 penetrations of the existing roofing membrane.

Zaganite Specialised Coatings was commissioned to reappraise the building and specify a means of completely and successfully waterproofing the roof.

Zaganite specified ARDEX TPO waterproofing membrane due to its record of achieving 100 per cent success in challenging projects such as RMIT, Melbourne and University of NSW, Sydney.

ARDEX WPM 615 TPO is a high performance waterproofing membrane of thermoplastic polyolefin combining polypropylene and ethylene propylene rubber. The scrim-reinforced membrane combines the durability of rubber with the heat welding properties of a thermoplastic in a flexible sheet. It is hot-air welded to deliver a fully secure, consistent seam quality.

The presence of asbestos within the existing roofing membrane meant its removal was prohibitively expensive while the HDPE membrane was very difficult to bond to – in fact, previous attempts at bonding to the HDPE had failed completely, but the removal of this membrane was impractical.

Unlike almost all competitive waterproofing membranes, the ARDEX TPO product could be fastened mechanically and loose laid over the HDPE. Zaganite Specialised Coatings, the applicators, employed a safe work method that ensured the fasteners were able to safely penetrate the asbestos in the bitumen sheet membrane. All penetrations and corners of the 440 square metre roof area were made easier to complete by virtue of the ARDEX TPO pre-formed corners and boots.

Zaganite project manager Stuart James said the entire project was facilitated by the supervision and expertise of ARDEX Australia's Mark Collins.

Other features of the TPO membrane are its ease and speed of installation plus its environmental credentials.

The TPO membrane comes in 30 metre sheets, two metres wide and weighs just 1.53kg per square metre. This delivers easier handling than most other waterproofing membranes and a variety of installation options for low slope roofing applications in both refurbishment and new construction projects.

The fact, the membrane offers single ply protection with fast, hot air welded seams delivers a rapid, safe (no naked flames) installation process.

Environmentally, the TPO waterproofing membrane has some definite advantages – its chlorine-free, non-halogenated and plasticizer-free formulation, in combination with the hot-air welded seaming method, produce no emissions harmful to the environment. The membrane can also be easily recycled and has a lower manufacturing footprint than comparable systems.



Pictured above: ARDEX TPO installed at the Myer Building in Brisbane Street Mall, Launceston.

A further advantage of the ARDEX TPO is that the white colour of the product creates a heat-reflective index of over 70 per cent – and a high proportion of this index is retained for the lifetime of the membrane due to its colour-fast retention properties.

For more information on any of the products discussed please contact the Ardex Technical Services Department on 1800 224 070.

Printing on Ceramic Tiles.

Many Sydney siders living or working in Parramatta will have seen the huge mural of cockatoos at Parkes Street.

The mural, which stretches the length of the railway tunnel was commissioned by the State Rail Authority and digitally printed on ceramic tiles using state of the art technology developed by Visual FX, an innovative printing company located in both Sydney and Queensland.



Pictured above: Cockatoo mural.

ideal for wet areas (can be fully immersed), in addition to being suited to areas prone to slab movement (the cockatoo mural is located below the train line).

This new technology allows the design to be printed as small as an A4 sheet and as large as your budget allows.

The resolution of the print on the tiles is 300dpi - the colours and the clarity of the design are true to life.

Each of the tiles in the mural were laminated to reduce potential graffiti damage and the individual tiles are coded so that if one is broken in transit, that specific tile can be reprinted easily.

Tiles provide a hard surface finish that can be employed in almost any commercial or residential environment, resulting in a lot of interest for Visual FX from various organisations – public and private, architects and builders.

The opportunities this technique makes possible, such as the creation of unique, permanent ceramic images, whether simple or complex for walls where ceramic tiles would not normally be specified, despite providing the most desirable surface finish, is unlimited.

The tiling contractor involved in the project was Parra Tiles who used ARDEX STS 8 with ARDEX E 90 additive, one of our premium tile adhesives which provides exceptional adhesion properties, coupled with ARDEX WA Epoxy Grout and Adhesive in black which is dirt resistant and

With Ardex, the Sky is the Limit.

To date, Ardex have supplied the following products for the Soul Apartments and the Hilton Hotel and Residences on the Gold Coast:

K 15 - 6600 bags
P 51 Primer - 250 units
K 250 - 512 bags
E 25 additive - 60 units
LQ 92 - 448 bags
Multiprime - 10 cubes

Pictured below: Ardex Queensland Training Trailers.



Pictured above: left tallest building - Hilton Hotel and Residences, right tallest building - Soul Apartments.

Ardex Spray Adhesives - AVAILABLE NOW!

Ardex have launched three NEW Flooring Spray Adhesives that provide a multitude of benefits including:

- being the only 100% eco friendly flooring adhesive available;
- having zero VOC's and 100% non toxic;
- providing safe installation for schools, nursing homes and hospitals;
- saves time - reduces installation time by up to 70% when compared to traditional trowel on adhesives;
- off your knees, reducing workplace related injuries;
- apply standing up - eliminates "pivot" stress on body;
- reduces installer fatigue and end of day fatigue;
- increase productivity and maximise manpower;
- NO trowel adhesive "time window" restrictions;
- NO trowel marks and perfect for dual bond underlay;
- NO trowel needed anymore;
- NO waste – use only what you need;
- allows immediate vinyl sheet seam welding - AF 152;
- adheres to various floor and wall surfaces;
- allows all traffic immediately after installation;
- non staining;
- fully recyclable aluminium cans.



ARDEX AF 152 Sheet Vinyl Adhesive

Designed to adhere resilient sheet flooring to well prepared concrete, underlayment grade plywood, metal and fibre glass substrates

ARDEX AF 158 VCT Adhesive

Designed to adhere vinyl composition tiles (VCT) to well prepared concrete, underlayment grade plywood, metal and fibre glass substrates

ARDEX AF 239 Carpet Tile Adhesive

Designed to adhere carpet tile, suitable LVT and tile plank to well prepared concrete, underlayment grade plywood, metal and fibre glass substrates.



ARDEX ARDITEX NA (NO AMMONIA) There Really is No Alternative!

ARDEX ARDITEX floor levelling and smoothing products were named by the readers of **Contract Flooring Journal** (the UK's leading flooring publication) as the 'Smoothing Compound of the Year' for an unprecedented 12th time in the 2011 Contract Flooring Association Awards in the UK. *'Ardex were delighted to retain this prestigious award which is chosen by the people who matter the most - the professional flooring contractors'.*

ARDEX ARDITEX NA:

- Ultimate underlay solution for vinyl and carpet floor coverings.
- Universal self levelling, smoothing compound.
- Ideal for timber and damp concrete floors.
- Used as a flood coat for direct bond to timber.
- Suitable for particleboards, plywood and T&G.
- User friendly and easy application.
- LOW VOC and AMMONIA FREE.



The Smartmixx™ Mixing Station.

Ardex Australia has recently introduced the new Smartmixx™ mixing station into our Sydney training centre. Smartmixx™ is the ultimate mixing station for all self-levelling cement, producing a perfect mix every time. It provides efficient hands-free mixing and fast pouring of materials, saving physical effort and time on jobs.

One Smartmixx™ station can mix up to 80kg in 3 minutes (1 tonne per hour). The ergonomic design, lightweight trolley and easy tilt operation provides control and speed for precision pouring.

The Smartmixx™ portable mixing station provides users with a multitude of benefits including:

- hands-free mixing;
- 4-wheel mobility and easy tilt operation for precision pouring;
- mix up to 80kg in 3 minutes (1 tonne per hour);
- optional detachable Protocol® Stirrer;
- light & durable aluminium trolley;
- large pivoting bucket;
- built-in timer;
- dust/splash reduction cover;
- trolley to transport product and tools on work sites.

Smartmixx™ is distributed worldwide by Work Smart Equipment, for more information visit www.worksmartequipment.com.au.

Pictured top right: Convenient mixing of multiple bags.

Pictured bottom right: Easy mobility and ease of application.



Old Parliament House, Parkes, ACT.

Old Parliament House was opened in 1927 as the house of the Federal Parliament until 1988. Today, this significant historical building is home to a Museum depicting Australia's rich political history. As a heritage building, constant conservation and sympathetic upgrading is required. Recent upgrading included installing a VIP disabled lift by excavating under the main entry stairs.



Pictured above: Old Parliament House, 18 King Georges Terrace, Parkes, ACT.

It was discovered during the excavation that the main entry stairs leaked severely causing minor flooding. Eric Martin and Associates were commissioned to produce documentation and specifications for the rectification and upgrade of the main entry stairs.

In January 2011, Ardex products were specified and used throughout the project.

Following removal of the existing tiles and multiple applications of various membranes, ARDEX LQ 92 was used to re-establish correct falls, followed by two applications of ARDEX WPM 300 and two applications of ARDEX WPM 002 waterproof membrane. Tiles were directly applied to the membrane with ARDEX Optima tile adhesive and grouted with ARDEX FG 8.

The installation was performed by Andrew Nott from S & A Sealant in Canberra.

Ardex Shaping the Future.

Ardex is fully committed to protecting and sustaining our environment. We embrace the responsibility of doing our part to pass onto our children and the generations beyond, a safer and better world in which to live. Being 'green' at Ardex is part of our company's culture. It has been an integral part of the Ardex corporate philosophy for many years and is a common thread that guides the way our family business thinks and acts.



Ardex's commitment to sustainable development includes the:

- development of environmentally friendly products;
- impact that our facilities have on their surrounding environments;
- support and encouragement provided to our employees to act as stewards of our planet and its resources.

It is not just by meeting industry and civic environmental regulations in our day-to-day operations; we go to great lengths to take into consideration the environmental impact of our products during research and development through our manufacturing processes and understanding what effects our products may have on the environment when they are put into use.

A vast array of Ardex Australia's Waterproofing, Tiling and Floor covering products have been independently tested to meet the Green Building Council Green Star Specification for Office Interior (IEQ-13) and many products are GECA approved.

For information to be sent to you on Ardex's approved products please call Lyn Cridland on (02) 9851 9166 (lyn.cridland@ardexaustralia.com).

Ardex's Commitment to Sustainable Packaging.

As part of the ongoing commitment to the environment, Ardex is constantly looking to employ best environmental practices, whilst also developing new and existing products to reduce our ecological footprint.

Utilising recycled rubber in place of sand for manufacturing a range of products is one of the ways Ardex achieves this. By doing this, Ardex not only contributes to the recycling of approximately 250,000 used tyres per year saving this rubber from landfill, but also saving approximately 3500 tonnes of Australia's sand per year.



The latest commitment to the environment that Ardex Australia is proud to announce is the transition of our plastic buckets that are currently made from virgin polymer to **recycled polymer**. This will greatly reduce our reliance on oil based products and again reduce the amount of product ending up in landfill.



Pictured above: Ardex Australia's new recycled polymer bucket.

Ardex used on Wellington's, 'Te Wharewaka' in New Zealand.

Te Wharewaka o Poneke is a 'canoe house' located beside the lagoon on the Wellington waterfront. The building accommodates and displays two historical Waka (canoe) which will be accessible for the public but will also occasionally be used out on the water. Wharewaka is a significant arts venue as well as being the centrepiece for Wellington's Rugby World Cup 2011 celebrations.

Architecture + of Wellington designed this \$12 million facility which has recently been recognised at the 2011 Wellington Civic Trust Awards, winning the award for 'Enhancement or Protection of the City's Built Environment.'

Ardex waterproofing products were chosen as part of the roofing system to ensure the absolute watertightness of this complex roofing profile. VM Zinc was used as the main roofing material. Approximately 1000m² of ARDEX Shelterseal



Pictured above: Wharewaka o Poneke on Wellington's Waterfront.

was used underneath this as a vapour/separation barrier. 1000m² of 1.5mm Dark Grey Butynol[®] was used in the hidden and exposed gutters of this complex roofline. The area around the Wharewaka development will be transformed with marquees, bars and big screens for Rugby World Cup celebrations later this year. Within walking distance of the stadium, this architecturally designed building will form the backdrop for Wellington's 'Party Central'. The building has a public cafe and will also be used for functions and art exhibitions.

Ardex Makes a Stylish Entrance at the Savoy in London.

ARDEX UK were delighted to work in partnership with Mega Marble Limited, one of the UK's leading specialist fabricators and installers of natural stone and quartz, to assist with the completion of the vast £220m restoration of London's iconic Savoy Hotel.

Managed by Fairmont Hotels and Resorts, the 268 room property on the Strand boasts nine signature suites and a newly created two bedroom Royal Suite. Gordon Ramsay has returned to the Savoy Grill and the hotel's banqueting rooms are already hosting events for up to 400 guests. Additional reception space is available in the new Beaufort Bar for up to 150 guests.

Mega Marble sourced, fabricated and installed a selection of their luxury marble and stonework throughout the public areas within the hotel, including the River Restaurant, Beaufort Bar, Thames Foyer, Upper Thames Foyer, Front Hall, Reading Room, cloakrooms and lift cars.

Ardex product's specified included:

- rapid setting and drying cement was used to screed the floor area;
- rapid drying, pourable floor tile adhesive in white was used to fix the floor tiling - it's rapid drying properties virtually eliminated the possibility of moisture staining of the stone;
- white rapid hardening and drying natural stone adhesive with admix was used to fix the wall tiles.



Pictured above: Savoy entrance, London.

Commenting on the project, Mega Marble said "We work on many of the UK's most prestigious hotels and our luxury marble and stonework products demand the very best in terms of adhesives. Ardex have developed a range of tile fixing products that exceeded our expectations and enabled us to maintain our reputation for excellence. We were delighted with the results at the Savoy".



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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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.

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Email: _____

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.