

WeldTec®

UNCOMPROMISING STRENGTH & FLEX

THE NEW
BENCHMARK IN
WATERPROOFING
PERFORMANCE

CodeMark >>>
CERTIFIED

CMNZ70189

Now certified for
direct fixed tiling
and minimum falls



Building tomorrow

ARDEX WELDTEC[®] WITH CODEMARK CERTIFICATION

THE NEW BENCHMARK IN WATERPROOFING PERFORMANCE

The construction of decks, balconies and low-falls roofs has always involved ongoing consenting friction between parties. Councils are understandably risk averse because failures are costly.

ARDEX WeldTec[®] changes all that.

A strong, flexible membrane that's quick to install, can flex and stretch without compromise, and is now CodeMark certified, including for direct-fix tile application.

It means a clearer, regulated pathway for compliant external waterproofing membrane – making design, specification and installation streamlined as well as removing the friction from the consent process.



ARDEX WELDTEC[®] WPM 1000



ARDEX WELDTEC[®] WPM 715



Coastal Penthouse Flat Roof – East Coast



The Palm Shopping Mall – Christchurch

ARDEX WELDTEC[®] WPM 1000

EXTERNAL UNDERTILE

ARDEX WPM 1000 is a fleece-backed waterproofing membrane designed for direct tile adhesion and other non-exposed uses. It features heat-welded seams for a strong, consistent bond and fast installation, with high flexibility, durability, and resistance to tearing, cracking, bubbling, and water absorption.

ARDEX WELDTEC[®] WPM 715

FLAT ROOFING

WARM ROOFING

ARDEX WPM 715 is a 1.5 mm weldable waterproofing membrane that resists ageing from heat, sunlight, and ozone. It offers excellent toughness, gas impermeability, and flexibility in low temperatures, making it suitable for all climates and for areas exposed to foot traffic.

THE WELDTEC[®] DIFFERENCE



25-year warranty

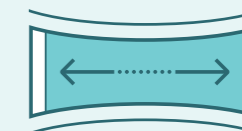
We're proud to be able to offer an industry-leading 25-year warranty for WeldTec[®] that not only covers any material defects but also the costs of reinstating the area and restoring it to its original condition.*

*See page 18 for more details.



Faster installation

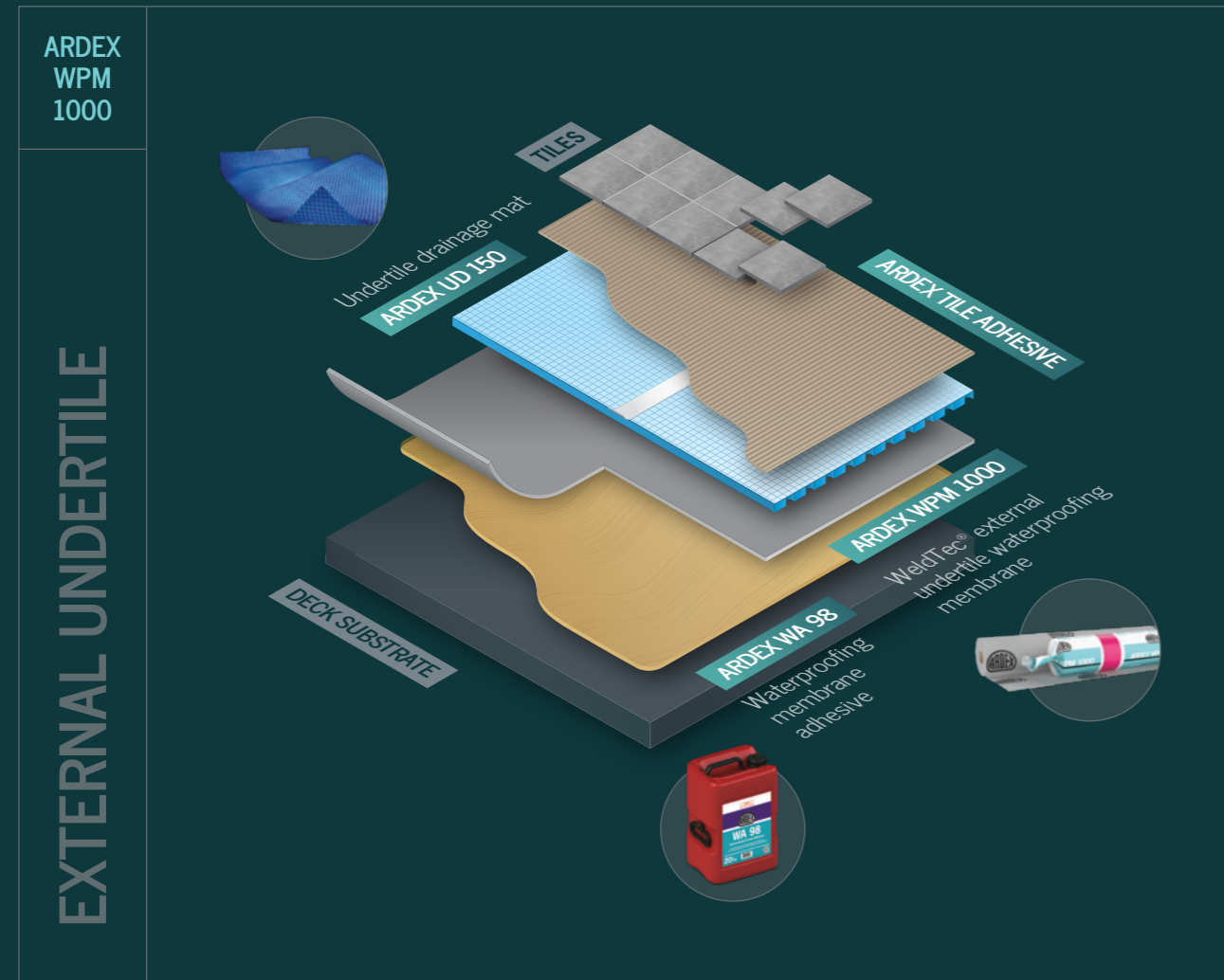
Unlike paint-on solutions, WeldTec[®] can be laid in challenging conditions, with waterproof integrity and maximum seam strength achieved immediately on sealing after just a single application.



Superior strength and flexibility

The WeldTec[®] membrane with heat-welded seams exhibit unrivalled sheer strength (+344% sheer), maintaining waterproofing integrity even under enormous load or building movement.

UNDERTILE DRAINAGE MAT SOLUTION



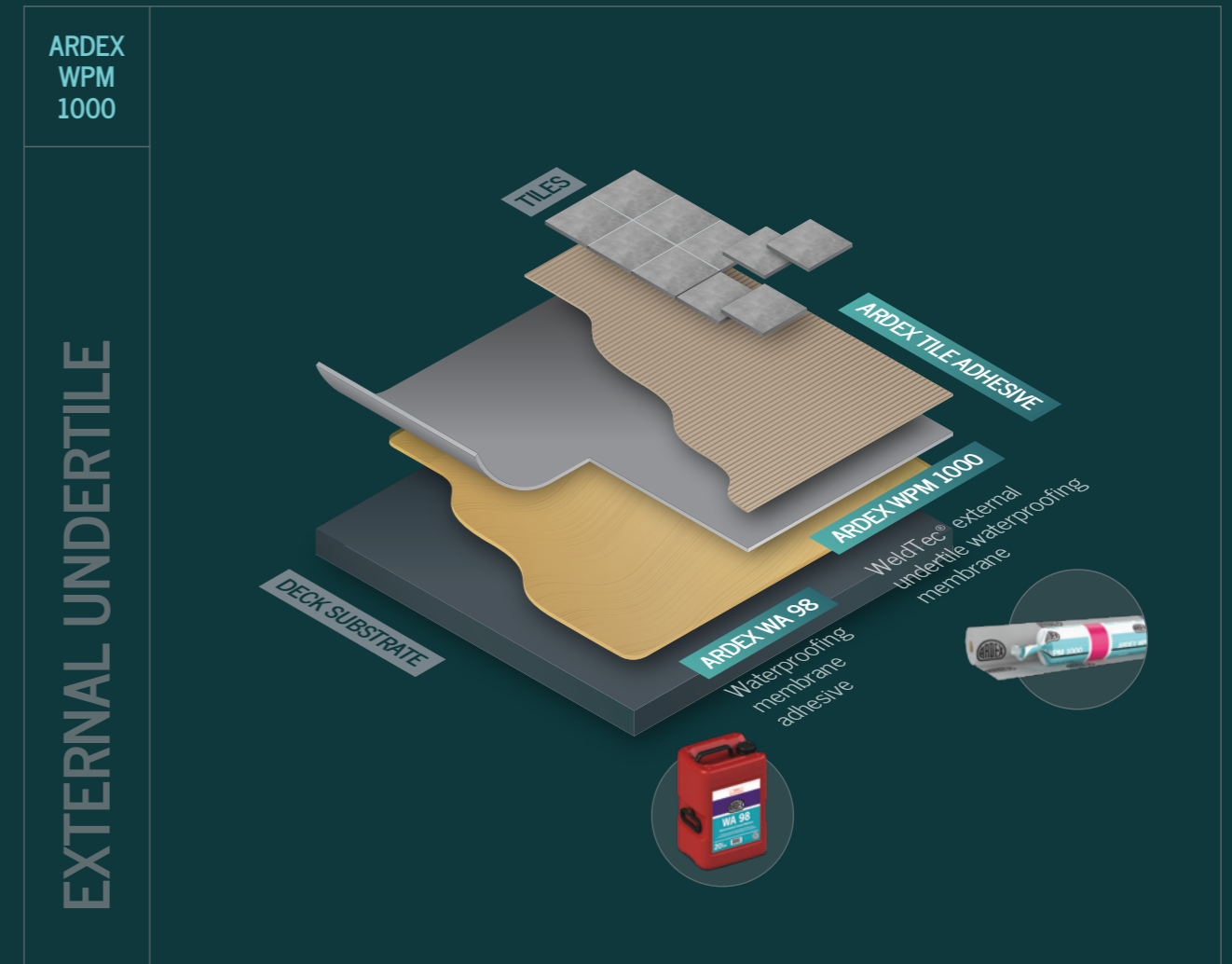
When two market-leading innovations create a durable and long lasting waterproofing and efflorescence-free solution.

ARDEX WeldTec® WPM 1000 provides a durable waterproofing solution for tiles decks and balconies where long service life matters.

For improved system performance on a tile finished surface, install with ARDEX UD 150. An Undertile Drainage Mat directs water and moisture away from the tiled surface, greatly reducing the risk of efflorescence, and improves acoustic performance.

The ARDEX UD 150 drainage layer also supports easier tile replacement in the future without disturbing the waterproofing membrane and low maintenance requirements compared to tile pedestals.

DIRECT ADHERED TILING SOLUTION

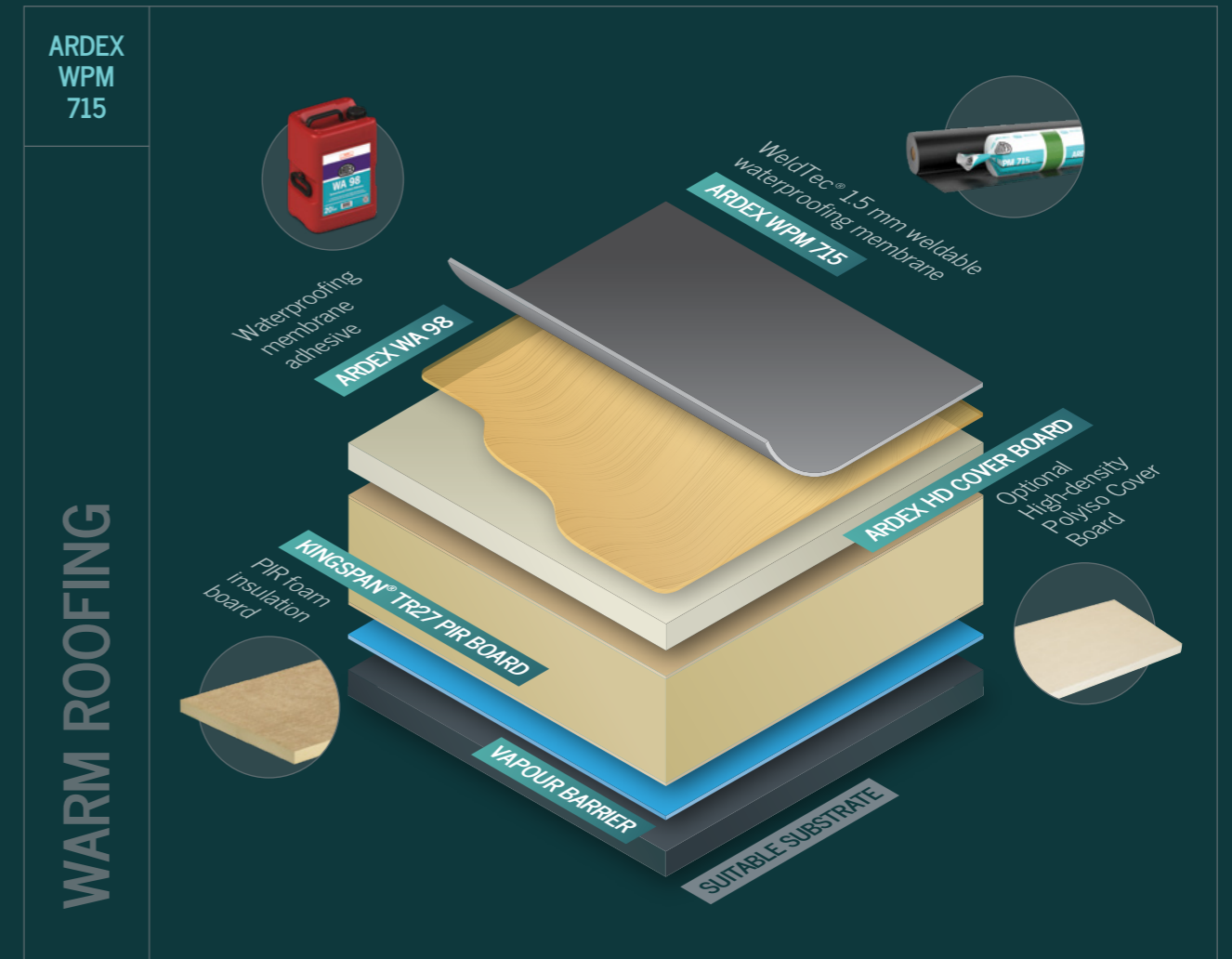
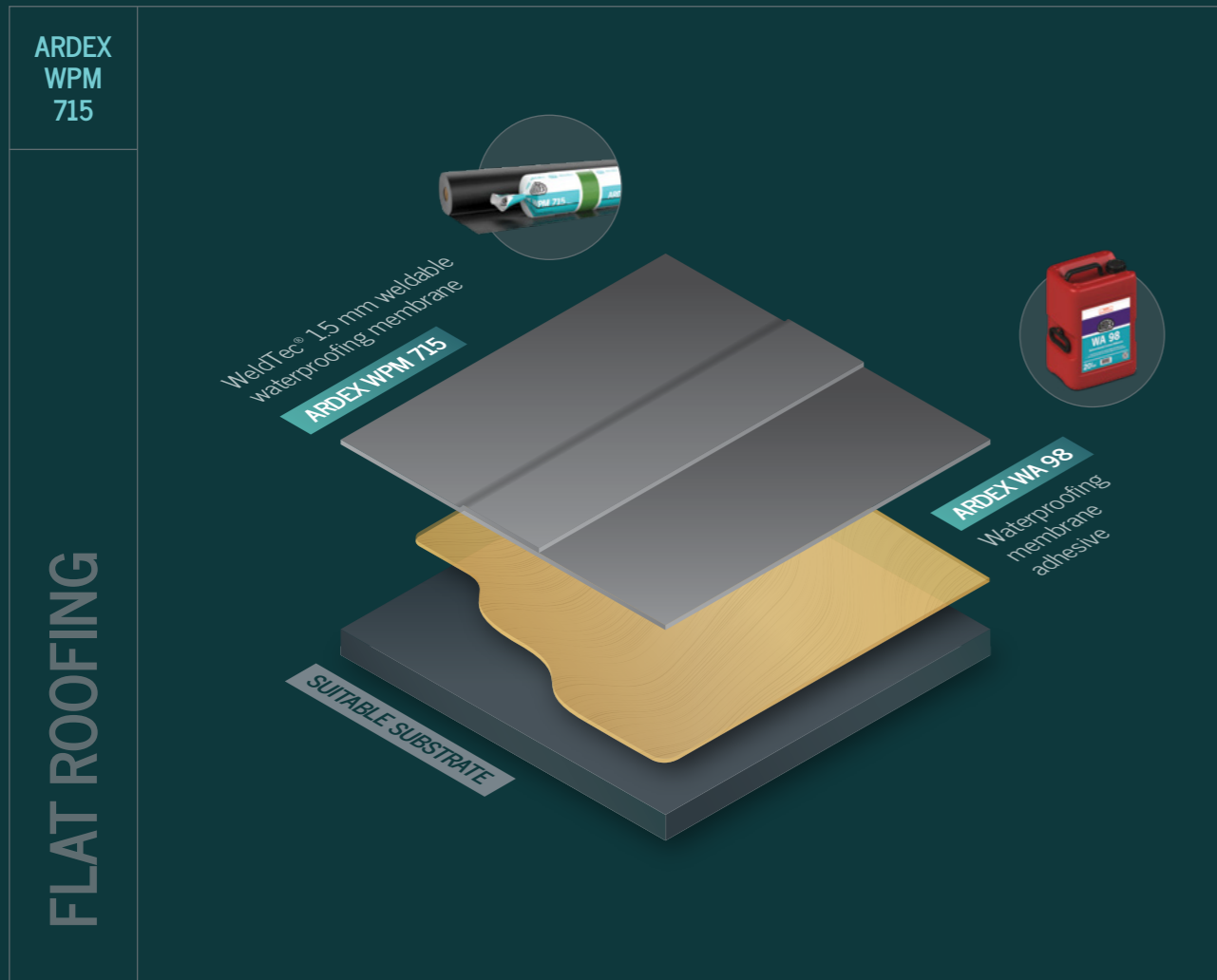


A purposely designed sheet membrane system for **direct-adhered tile surfaces** and other non-exposed use – creating the perfect solution for flat and low pitch balconies without the need for pedestals.

Flood testing and tiling can be undertaken directly on the membrane 60 minutes after installation. ARDEX WeldTec® WPM 1000 can also be rendered and painted over using ARDEX approved coatings and renders.

The CodeMark certification confirms performance against relevant New Zealand Building Code clauses, including durability (B2) and external moisture (E2), when installed and used in line with the certificate requirements.

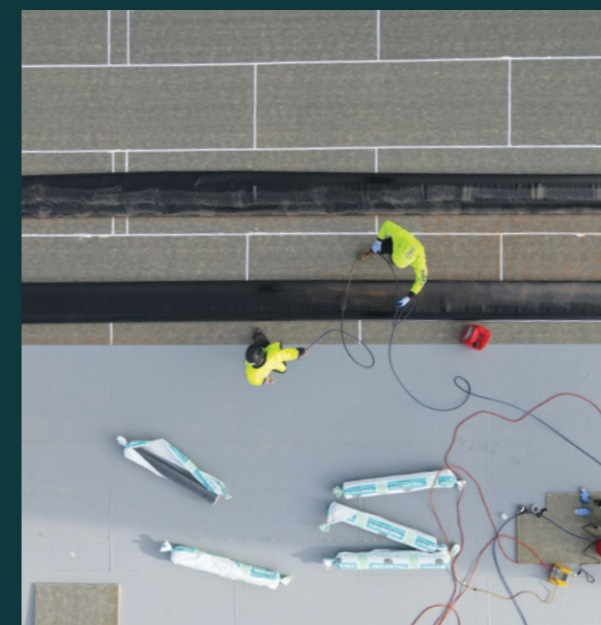
FLAT ROOFING SOLUTION



This membrane system is a high quality, heat-welded waterproofing membrane designed for use in UV exposed areas.

With excellent resistance to atmospheric agents, and resistant to ageing from heat, ozone, and sunlight whilst maintaining excellent flexibility in low temperatures, making it suitable for all climatic zones.

ARDEX WeldTec® WPM 715 is CodeMark and water potable certified, to be used as a single layer membrane in both horizontal or vertical applications for waterproofing exposed decks and rooftops.



Warm roofing places insulation above the roof or deck, below the waterproofing, to improve thermal performance and control condensation. The system uses Kingspan® Therma TR27 PIR board with ARDEX WeldTec® WPM 715 roofing membrane.

Kingspan® Therma TR27 delivers exceptional R values to help meet Building Code H1 with minimal build up. The closed cell PIR core resists moisture, stays dimensionally stable, and performs long term. A tapered option is available for creating falls.

ARDEX WPM 715 is a durable 1.5 mm weldable membrane above the insulation, forming a continuous watertight, energy efficient solution for metal deck, plywood, or concrete flat roofs.

CASE STUDY

TAKAPUNA APARTMENT – LIGHTWEIGHT MEMBRANE REPLACEMENT

ARDEX WELDTEC® WPM 1000



What began as a straightforward replacement of a 48-year old membrane turned into a more complex project, with the need to create a fall using a lightweight system that wouldn't raise the height of the parapet.



The original finish was concrete pavers approximately 40 mm thick, and the drawings detailed the supporting slabs to be laid to falls.

But when the pavers were uplifted, it was discovered that the slabs had in fact been laid level, with the pavers set on non-continuous beds of mortar under just their corners to create the falls – not a full mortar screed.”

Graeme Fanselow
Director, Fat Parrot Architecture

At this point, a new approach was required, with the key limitations being weight and the height of the parapet – which the homeowners did not want increased. This effectively ruled out the possibility of using a chair deck system for the new tiles, so a **direct-fix system** on a new substrate built to the required falls was needed.

This created new challenges for the project, as any new solution would need to create the fall required, while still maintaining the original height and weight. The ARDEX team worked with Fat Parrot to find a system that would resolve all issues.



The final build-up features a custom combination of ARDEX products. ARDEX K12 New screed and ARDEX A 48 Rapid Screed unbonded have been applied above the concrete slab, with ARDEX WeldTec® WPM 1000 membrane installed on top. ARDEX WPM 002 liquid membrane was also used over flashing on the parapet upstand. The originally specified ARDEX UD 150 mesh-reinforced plastic drainage mat was then applied. Featuring a 6 mm drainage channel, the mat allows free passage of water underneath the tiled surface to speed up drying after rainfall. ARDEX X 18 tile adhesive, ARDEX FG 8 Grout and ARDEX Grout Booster complete the installation to form a compliant build-up for the direct-fixed tiles above.

The highly bespoke system developed for the project highlights the flexibility of ARDEX's systems, and the technical support and problem-solving expertise the ARDEX team bring to each project.

“ARDEX were excellent,” says Graeme. “They gave us good technical support and have been very helpful.”



CASE STUDY

POOL OF REFLECTION

ARDEX WELDTEC® WPM 1000



One of the key challenges included containing water within the pool while at the same time keeping water out – the pool has expansion joints in the substrate and the concern was that the water coming up from the ground would push the moisture out.

ARDEX advised that an outlet for residual moisture was required before the pool was lined. This was done by running the ARDEX WeldTec® WPM 1000 Undertile waterproofing membrane parallel with the expansion joints, resulting in the membrane being turned into a joint with a stainless steel angle and then sealed off with ARDEX RA 88 Multipurpose Epoxy Repair Adhesive. A system of the ARDEX DS 60 Decoupling Mat was installed under a strip of ARDEX WPM 1000 to allow the gas and moisture build-up to escape. ARDEX WPM 1000 was pre-cut to suit each of the joints, saving on time.

The Pool of Reflection's tiles could be bonded directly below the water line to the ARDEX WPM 1000

using ARDEX X 18 Fibre-Reinforced Flexible Non-Slump Wall and Floor Tile Adhesive. This adhesive adds strength to the tiled area, in addition to ARDEX E 90 Admix for Cement-Based Tile Adhesives. The installation was completed using ARDEX EG 15 Easy Clean High Performance Epoxy Grout, providing contractors ease of use in addition to a complete system solution.

The installation of the main ARDEX WPM 1000 membrane was carried out by being fully glued with ARDEX WA 98 Adhesive. At the rear of the pool is an overflow, where the granite stone plinth has been fixed using ARDEX WA 100 Two Part Epoxy Adhesive for Natural Stone.



CASE STUDY

NAN TIEN TEMPLE

ARDEX WELDTEC® WPM 1000



This stunning venue has high daily foot-traffic, which meant that the project had to be split into two stages to ensure the Temples remained accessible throughout the works.

As well as precise membrane detailing around the stairs, it needed a smooth transition between the stages to allow for direct stick tile adhesion on all staircases.

The ARDEX WeldTec® WPM 1000 membrane provided the waterproofing solution to meet the project's many challenges.

It was installed under direct screed and tile applications, but when the ARDEX WeldTec® membrane was to remain UV exposed in specific areas, the ARDEX WPM 300 and ARDEX WPM 310 protecting coating were able to be utilised to ensure the structure remains protected and waterproofed for many years to come.

It was great to collaborate and work alongside ARDEX and Urban Core. Working seamlessly together on this project, we appreciated the support from ARDEX representatives and the technical department. The partnership highlights our dedication to accuracy in every aspect of our work."

Joe Brady
Director,
JMB Waterproofing Solutions



CASE STUDY

RETROFIT MEMBRANE ROOFING AT THE PALMS SHOPPING CENTRE

ARDEX WELDTEC® WPM 715



ARDEX WeldTec® WPM 715 made the ideal waterproofing solution for an existing roof at The Palms Shopping Centre in Christchurch.

Combined with ARDEX WPM 715, ARDEX Butyseal and PIR board, the roof renovation was completed with minimum disruption to the 7,000 people in the community who use the centre. The shopping centre houses over 85 stores and covers 35,343 m² of retail floor area, so it was important that it remained fully operational during the job.

Built in 1997, the metal ribbed tray roof had seen better days and was well overdue for a refresh. A system solution was developed to retrofit the roof in conjunction with Newfield Roofing. They began by infilling the pans with ARDEX Polyiso cut fingers to create an even surface prior to overlaying it with full sheet ARDEX Polyiso insulation boards. ARDEX WPM 715 was then used to waterproof and finish the main roof area and ARDEX Butyseal was used in the gutters.



We have always worked closely with the ARDEX team. They help us find innovative solutions to help us solve our customers' unique challenges”.

Mike Hill
Newfield Roofing

The confidence to specify ARDEX WPM 715 was made easier given it is BRANZ appraised and now CodeMark certified, as well as coming with ARDEX's industry-leading 25-year warranty.



CASE STUDY

SAFEGUARDING THE STARS – TE WHATU STARDOME

ARDEX WELDTEC® WPM 715

For generations of Aucklanders, Stardome has been a place of wonder. School trips, family outings, and late nights spent watching the stars.

But after years of exposure, the curved metal dome and roof began to fail. Leaks had spread, threatening the building and its heritage.

The ageing membrane roof had suffered from constant UV exposure and thermal movement. Seams had opened, fixings had loosened, and temporary repairs were no longer effective. A reliable, long-term waterproofing solution was needed for a complex structure that couldn't afford downtime.

The Solution:
ARDEX WeldTec® WPM 715

ARDEX WPM 715 was chosen for its flexibility, strength, and proven UV resistance in New Zealand conditions. The weldable sheet membrane is designed for exposed roofing and can handle ongoing movement and maintenance traffic.

The membrane was heat-welded onsite, creating seamless joints across the roof, parapets, and around the copper domes without relying on tapes or adhesives. The result is a continuous, watertight surface built for decades of service.



CASE STUDY

ROTORUA MUSEUM ROOF REMEDIATION

ARDEX WELDTEC® WPM 715

Rotorua Museum, a Category 1 heritage building constructed in the early 1900s, has experienced recurring roof failures due to its complex architecture and exposure to New Zealand's harsh climate.

In 2024, a remediation programme addressed structural, seismic and waterproofing issues while preserving the building's Tudor-style roofline and public viewing areas.

ARDEX WeldTec® WPM 715 Roofing Membrane was selected as the primary waterproofing system across internal gutters, flat-roof areas and balcony sections. Its weldability, flexibility and UV resistance allowed installers to create custom on-site membrane detailing that could conform to complex roof features and irregular surface structures. This adaptability enabled precise waterproofing while maintaining the heritage appearance of the building.

For the public viewing deck, ARDEX WPM 170 anti-slip coating was applied over ARDEX WPM 715 to create a durable, slip-resistant surface. The integrated system now provides robust waterproofing across the roof, balconies and deck areas, delivering modern performance while supporting the long-term protection of this historic structure.



RESOURCES AND USEFUL LINKS

You'll find the full suite of specification CAD drawings and supporting documents available for download on the ARDEX New Zealand website at ardex.co.nz

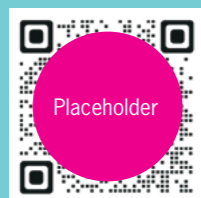
ARDEX WeldTec® WPM 1000 Specification Kit



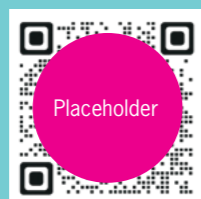
Technical downloads



Product details



CodeMark Certificate



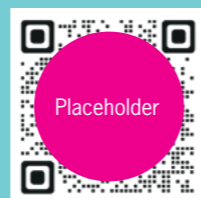
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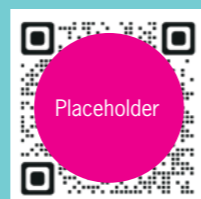
Technical downloads



Product details



CodeMark Certificate



FAQS

Does the CodeMark certification apply to all WeldTec® products?

We are going through the process of gaining accreditation for the whole range, however currently it is ARDEX WPM 1000 (external undertile) and ARDEX WPM 715 (roofing) that have CodeMark accreditation.

Can I specify WeldTec® on all types of base substrates?

Yes. WeldTec® can be applied to plywood, concrete and PIR substrates – specification details and CAD drawings are available in the resources link.

If I specify WeldTec®, will that limit who can install it?

In order to benefit from the ARDEX warranty, WeldTec® products need to be installed by a trained ARDEX installer. There are over 500 trained installers across New Zealand.

What warranty options are available for specifications?

There are two options: a Product Warranty for individual products or a SystemARDEX Warranty for a specified ARDEX system across multiple products on a project.

Why specify a SystemARDEX Warranty?

It warrants that the system combination is free from defects, 100% compatible, and suitable for the intended purpose when installed per ARDEX guidance.

How long are warranties?

When WeldTec® is installed by a trained ARDEX installer and follows ARDEX installation specifications, we extend the standard WeldTec® warranty to 25 years for both ARDEX WPM 715 and ARDEX WPM 1000.

Do warranties focus on years or outcomes?

The ARDEX warranty covers much more than the product itself. It also includes re-installation costs, and costs of rectifying any material immediately covering the product.

How to handle non-standard system combinations in a spec?

Engage ARDEX Technical Services before installation for an Extended Warranty recommendation.

How do I request warranty documentation for a project file?

An ARDEX Warranty document is issued to the installer only. Please contact the installer for the document. Any requests outside of this can be emailed to warranty@ardexnz.com Please allow two weeks for processing.



25-YEAR WARRANTY

An ARDEX 25-year warranty is designed to give architects, contractors, and asset owners greater peace of mind, with cover that extends beyond just replacement of the product itself.

It supports the full scope of a valid claim, including helping with the practical costs of removing affected materials then supplying and installing replacement product, meaning you're not left managing the disruption or unexpected expenses alone.

An ARDEX warranty covers:

- The costs of repair to which the product is applied and damaged by removal of the defective product where such proves necessary.
- The cost of reinstating or repairing the product or system including material costs of equal or equivalent products.
- The costs of rectifying any material covering the product.

ARDEX warranty claims are NOT discounted by years of service.

The SystemARDEX Warranty is project specific and warrants that the SystemARDEX combination of products that forms the total system are free from defects, are 100% compatible and the system combination is suitable for the purpose intended.

For more info, get in touch:

Call 0800 227 339
 Email info@ardexnz.com
 Visit ardex.co.nz

SCAN HERE FOR MORE WARRANTY INFO & FAQs

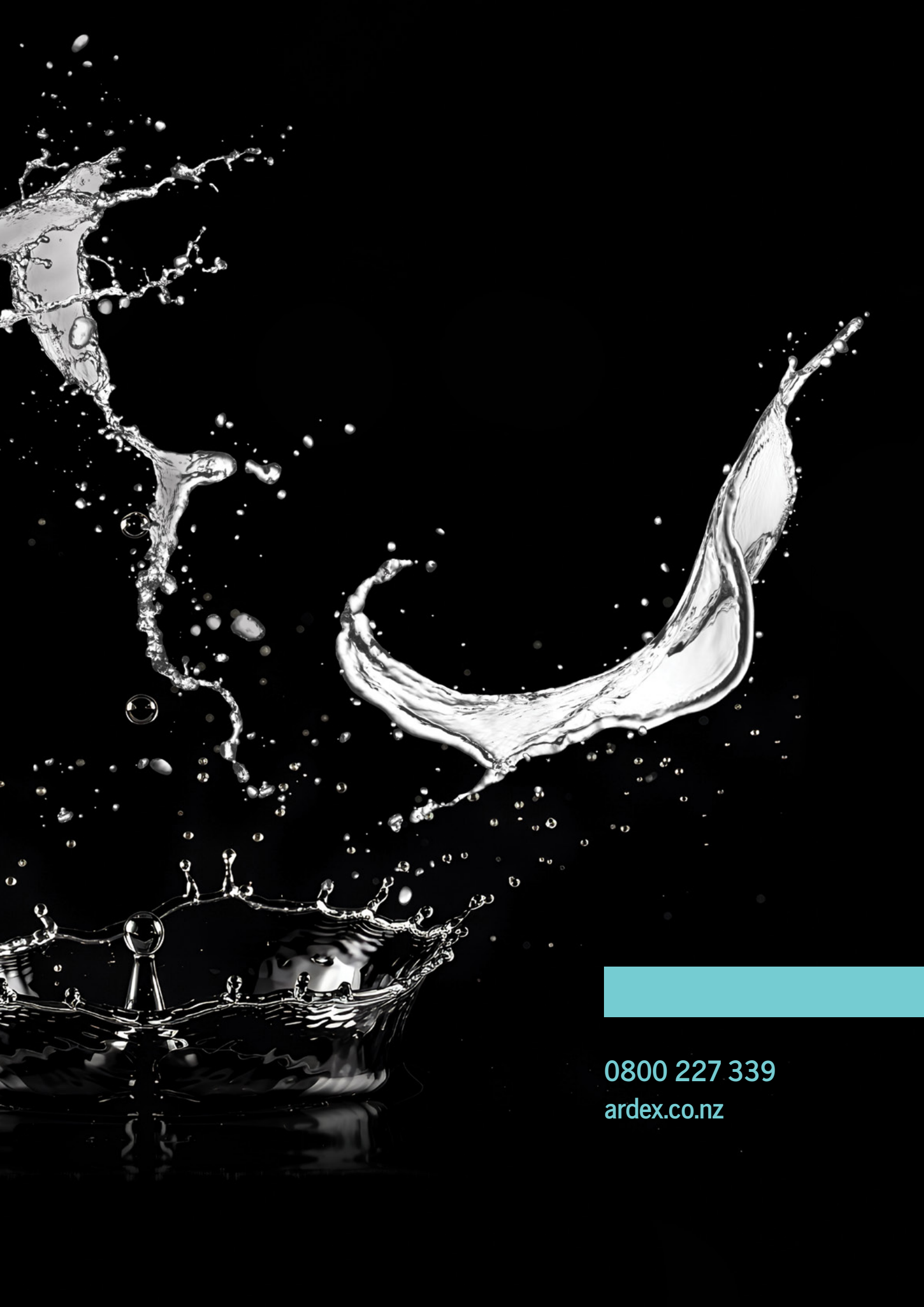


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