

Ultralast Superior to any paint

The world's first true environment friendly paint

Ultralast is called an ECOATING™ because it's more kind to the environment than any paint - **it's entirely non-toxic, with zero VOC levels** that sit well below the requirements of the Australian Eco-label Program.



It's a *system* because unlike conventional paint, it requires surfaces to first be coated with **Ultralast's** special sealer - Ultra-Bond. Ultra-Bond is easy to apply because it has a water-like consistency. The two compounds lock together forever.

Then, no matter what happens, **Ultralast** continues to look good and perform better than conventional paints by any measure. **That's why it's guaranteed up to 25 years.**

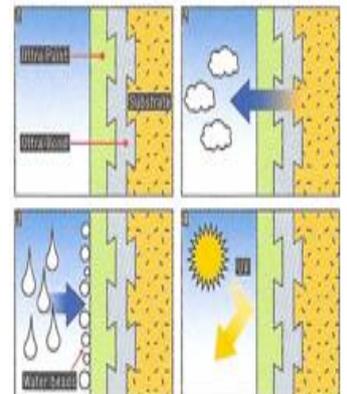
Ultralast is fire retardant, with zero smoke toxicity virtually odour-free and non-toxic, it repels moisture, mould and mildew. **Ultralast** will not blister, crack, bleach or fade. It is the strongest yet most flexible paint ever made. **Ultralast** also has outstanding insulation properties.

Ultralast is extraordinarily stable, even in the most aggressive conditions such as climatic extremes and direct exposure to ocean salt, sand, wind and waves. It is hard to believe?

What makes **UltraLast** paint different?

Conventional paints are porous (ie, they soak into the painted surface), but **Ultralast** is membranous. The special sealer locks deep into the surface substrate, then the ECOATING™ layer creates an extraordinarily strong surface bond with it, to produce a membrane - flexible, yet with a unique toughness not seen in conventional paints - that anchors into the painted surface and holds it together.

Conventional paints are a toxic cocktail. In manufacturing, they go through up to 23 separate chemical processes to produce the end product. Many of these chemical processes are designed to neutralise the side-effects of other component chemicals.



Some so-called "environmental" paints use chemical additives to make them smell like other substances (such as baby powder, for example). This simply masks the odour of the high levels of Hazardous Air Pollutants (HAPs) present.



Of course, there are other low-VOC paints available. But none can compete with **Ultralast** in quality, durability and range of products. Unlike most of its competitors, the **Ultralast** product line up has a wide range of applications: architectural (interior and exterior) industrial and waterproofing.

Global trends in industry, manufacturing and technology are focused more than ever on the development of environmentally friendly products more than ever on the development of environmentally friendly products, environmental criteria now and for the foreseeable future.

History.

Great inventors are often also brilliant eccentrics and **Ultralast** inventor, Danie du Buson, is no exception.

One day in 1967, while examining ancient cave paintings in the African desert, it struck Danie that he was looking at colours which had remained vivid for thousands of years.

So Danie set out to crack the base chemical code of the unique formulation which had led these paints to remain so colourful for so long. Bringing his scientific knowledge to bear, he experimented for 14 years.

Then, over the following two decades he developed and perfected a formula founded on the simple chemical structure of the silica-based painting substances used by the ancients - but with the addition of modern technology.



Danie du Buson set out to track down the secrets of the ancients: what causes some cave paintings to retain tile vivid colours in which they were first created hundreds sometimes thousands of years ago? The ancient world's most advanced civilizations tile Chinese, Greeks and Romans - all used similar silica-based formulations for colouring their ancient worlds. The colours endure, yet these artisans had no access to today's chemicals or sophisticated manufacturing technology.

Danie du Buson's discovery was a remarkably stable formulation. Compared to other paints, it was also extraordinarily non-toxic - and, like the paints applied by the ancients, colours were highly resistant to fading, even in the harsh African sun. Yet like all great discoveries, it was at heart very simple.

If there's one environment with aggressive conditions more challenging than Australia, it's Africa. So Danie du Buson has built himself a successful business developing and selling his "Selfcote" paint brands throughout South Africa. But the technology did not find its way to other markets, because of the way trade sanctions cut off South Africa from the international community during the regrettable years of apartheid.

In 2001 Danie met a young architect/environmentalist and together, the pair further developed the range of paints and subjected them to stringent testing procedures to improve their unique qualities and characteristics. The resulting product became known in South Africa as the revolutionary "B formula" technology.

The **Ultralast** ECOATING SYSTEM™ is a new variant of the "B formula" technology.

Exhaustive quality tests have been completed in the renowned laboratories of the UK Paint Research Association. Even the Swiss Environmental Institute, one of the world's most stringent adjudicators of environmental excellence, accepted **Ultralast** for tax-free status.

News of the **Ultralast** ECOATING SYSTEM™ has quickly spread among architects, developers, builders and painting professionals

Handling and usage

Ultralast paint goes through just seven processes in manufacture. So it's extraordinarily stable, with a shelf life in the can of up to 7 years (compared to 2 years for conventional paints). This makes it attractive to retailers because inventory control is simplified, with little waste.

Switzerland, arguably the world's most progressive and environmentally sensitive Government, provides tax-free status for environmentally friendly products of all kinds. Ultralast paint is not sold there yet, but classification and listing were sought and gained as a formal universal certification of quality.



Ultralast presents and handles just like conventional acrylic paint, only better. The first thing you notice is, during application, odour is practically non-existent - regardless of the colour of the paint you use.

Ultralast is quick drying and will not blister, crack or bleach for years after application. The ECOATING™ does not harden or deteriorate with age.

Ultralast is water-based, so use and clean-up is as easy as it is for any conventional water-based acrylic paint.

Amazing performance benefits of the miracle membrane.

Once applied to a properly-prepared surface, **Ultralast** acts as a one-way membrane, allowing small amounts of moisture to escape to the surface (in the form of water vapour) but preventing moisture from penetrating the painted surface. This membranous characteristic confers outstanding benefits in all applications, leading to some truly astonishing performance attributes in the most aggressive conditions.

The inventor of Ultralast, Danie du Buson, performed an amazing demonstration of the non-toxic nature of the ecoating at a paint convention in Singapore in 1995. He painted the interior of a shoe box with Ultralast, allowed it to dry, then filled it with water ... and then placed two goldfish in the water. Delegates to the conference were convinced the fish would die, due to toxins from the paint leaching into the water. But such was the strength of waterproof bond created by Ultralast that not only did the shoebox not leak, the fish were alive and well the next morning - demonstrating the true ecofriendly nature of the paint.

Insulating properties

Because of its tough nature, **Ultralast** has outstanding insulation properties. So much so, that studies show buildings painted with **Ultralast** can deliver savings of \$1 per square metre per annum in energy costs. Long term, this means far less energy use for buildings painted with **Ultralast** ... and a consequent reduction in overall greenhouse gas discharges.

Exposure to fire

Australia is an environment notoriously prone to bushfires. Rarely does a summer pass without a devastating loss of property somewhere in the country. Authorities urge homeowners to prepare their properties to guard against the risk of bushfire. One of the best ways is to use **Ultralast**.

In any fire situation, it's the toxic chemicals in conventional paints that generally support and enhance combustion, feeding the fire. But the unique formulation of **Ultralast** not only does not support combustion - it's actually a fire retardant!

In a fire, often it's the toxicity of the smoke which injures and even kills people. But **Ultralast** has a smoke toxicity index of zero.

In bushfire-prone Australia, houses painted with Ultralast have the best chance of avoiding destruction by fire. In fact, in South Africa (and perhaps soon in Australia) houses and buildings coated with Ultralast attract a discount on property insurance because of their fire retardant qualities.

With its uniquely strong and impenetrable membrane, Ultralast does not host dirt. The dirt doesn't penetrate the surface and so does not require scrubbing for removal. Consequently, buildings coated in Ultralast are easily cleaned every time there's a shower of rain! So choosing Ultralast confers a cosmetic benefit as well as its many performance benefits.



Construction

Architects and builders are increasingly specifying **Ultralast** because, especially in large industrial and construction applications, it virtually eliminates one of the main causes of "concrete cancer": moisture penetration. And on the interior, the tough **Ultralast** membrane endures industrial wear and tear far better than any other coating ... even when applied to floors subject to heavy foot and even machinery traffic.

Damp environments

Graceful old high-ceilinged inner city houses that have been standing for a century or more are usually highly damp-prone. Damp-coursing alone is often not totally effective and so choice of coating can be critical.

The curse of renovating is rising damp. A painted surface can hide a multitude of sins. Over time, problems can literally rise to the surface. But Ultralast protects the surface structure because it allows moisture, in the form of water vapour, to escape without affecting the cosmetic appearance of the coated surface.



The uniquely moisture-repellent properties of **Ultralast** are especially ideal in this situation, because the membranous nature of the e-coated surface locks the moisture inside the wall so it won't damage the surface. Even where there is moisture present, such as in humid tropical environments, Ultralast will actively repel fungi because, being non-organic, it cannot host life-forms. So walls and ceilings e-coated with **Ultralast** will not support mould and mildew.

Renovating

Very often, older houses show fine surface cracking on plastered walls. Covering with conventional paints doesn't work because, being porous, the paint simply soaks into the cracks, which remain visible. But because **Ultralast** is membranous, it binds the deteriorated surface, covering the cracks, moving and stretching with the structure. Thus there is no need for re-plastering.

Glazed roof tiles

When glazed roof tiles were originally manufactured, they were designed to look good for life - to never need painting. There is not paint in existence that will adhere to glazed roof tiles, which - despite their manufacturers' original claims - do deteriorate over time, lose their colour and host mould and algae growth. But the **Ultralast** ECOATING SYSTEM™ will adhere to the glazed surface - and extraordinarily well: once coated and allowed to dry, the tough membranous **Ultralast** ECOATING™ cannot be scraped off, even aggressively attacked with the sharp edge of a screwdriver!

Coastal applications

Much of Australia's population lives close to the sea. People whose houses are exposed to the rigours of sand, salt and wave spray know that the life of conventional paints in such conditions can be severely limited. But because of its outstanding strength, **Ultralast** is untroubled by such aggressive environments, so it helps protect the structure of the building and looks much better for much longer.

As Smooth As Butter

Given **Ultralast**'s toughness and durability, you might expect that it could be a little hard to handle. Nothing could be further from the truth! In usage and application, all **Ultralast** products are easy to prepare and apply.



Few environments are as aggressive as coastal locations. Buildings here tend to weather more quickly than buildings in any other environment. But with the Ultralast coating system, the surface is locked down against the constant battering from the elements.

The paint flows from brush or roller with ease, giving a smooth painting action that's supremely satisfying to the most demanding painting professional. The surface is silky, as brush marks even out instantly with each stroke of the brush, **Ultralast** dries quickly to a brilliant surface. So not only is **Ultralast** tough and durable in any application - it looks great on the job as well.

Surface marks, including graffiti

Because the surface of **Ultralast** is a solid membrane, not only is it highly resistant to foreign materials, it also tolerates aggressive scrubbing. So foreign dirt and marks (even graffiti) are easily removed, with far less effort.

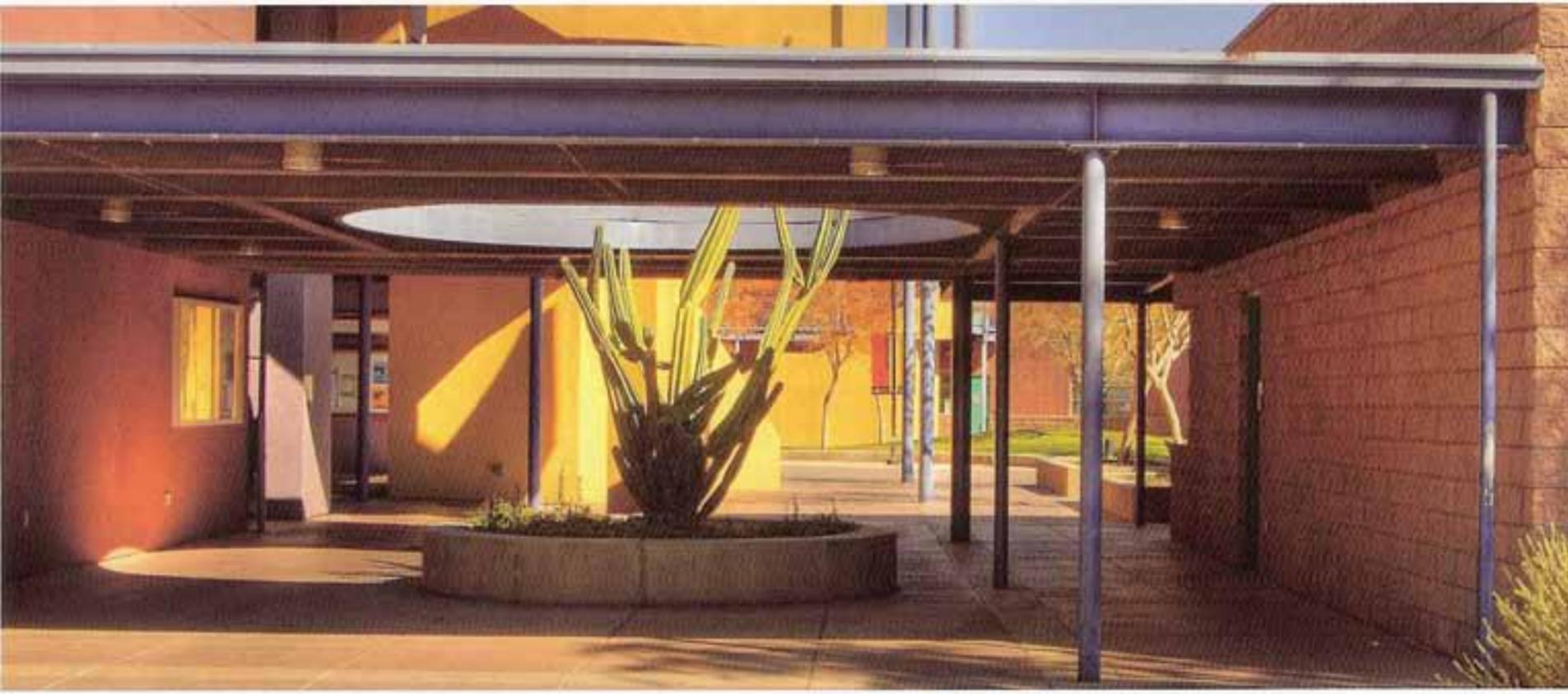
This makes **Ultralast** especially ideal for all street-facing applications subject to the risks of graffiti.



Graffiti is the contemporary scourge of urban environments. A can of pressure pack paint penetrates porous surfaces, often necessitating repainting to remove the offending images. But because Ultralast is membranous, graffiti removal is relatively easy.



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Success stories

Ultralast ECOATING SYSTEM™ flourishes in the most aggressive climatic and environmental conditions, because its simple formulation bonds so securely to any well-prepared surface. Take a look at some of these success stories.

Bondi Icebergs Pool

The iconic Bondi Icebergs, located at the Southern end of Bondi Beach, is perhaps the most famous pool in Australia. Opened in 1923, like all tidal pools, it is subject to constant battering from ocean waves.

Few paints can stand up to the corrosive effects of salt water, let alone the never-ending barrage of ocean waves which can smash into the side of the pool with considerable force. The pool owners found they had to repaint every 9 to 12 months.

The substrate structure of the Icebergs pool is almost 100 years old. The relentless waves pounding the structure puts pressure up through the rock surface and onto the cement structure of the pool itself, from beneath. Cracking is extensive. However because Ultralast's unique strong membrane is flexible, it can withstand the pressure and so the pool itself remains sparkling and pristine in appearance for years longer than before - when it was treated with inferior paints.



Then they discovered **Ultralast**. In November 2005, the pool owners agreed to host a test strip of **Ultralast** on the ocean wall of the pool. The test strip was monitored for six months. At the end of that time, it was as good as the day it was applied.

So in June 2006, the pool was completely repainted with **Ultralast**. Now, we confidently expect that the Bondi Icebergs pool will not require repainting for some years. This not only saves the owners money; it also saves the inconvenience of closing the pool every nine months for repainting.

Brisbane Airport

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The management of Brisbane airport had always had a problem with the guidelines painted on the tarmac. These vivid yellow paint lines are important, as they guide large passenger aircraft to the correct air bridges to off-load and on-load passengers.

With the heat, high tropical humidity and jet fuel spillage, invariably the paint would wear away quickly. The lines required repainting at frequent intervals. But now the lines are painted with **Ultralast**, and management does not have to endure the inconvenience of shutting various pathways around the tarmac to facilitate regular repainting.

In December 2006, **Ultralast** paint was independently tested by Associate Professor Richard Bell, former Technical Director of Wattyl Paints. He declared it superior to his own invention, Solagard Exterior paint.

Airports are quite toxic environments - and a tough gig for any paint. Fuel spills, constant traffic, heat and humidity test the performance of paint in this environment. The Ultralast e-coating system stands up to anything any airport can dish out.



Ultralast **Product Range**

Ultra-Bond

Ultra-Bond is highly acrylic water borne penetrating primer or undercoat that has excellent flexibility and impact resistant properties on all surfaces it's applied to. Ultra-Bond is suitable for application over old and new concrete, slates, bricks, plaster, asbestos, roof tiles, hard boards, chip boards; aluminium, galvanized steel, painted areas, etc.

Ultra - Seal

Ultra-Seal is water borne, ready to apply elastic waterproofing sealant for filling and sealing cracks and joints in metal, concrete and wood surfaces, which prevents water penetration. When cured, it forms a tough, highly durable, flexible seal that has ultimate protection properties and can tolerate thermal shrinkage movements of the substrates. It is ideal for application to metal roofs, parapets, dams, gutters, down pipes, concrete roofs, pre-cast panel walls, glazing, etc.

Ultra-Concrete Seal

Ultra-Concrete Seal is highly acrylic water borne, low viscosity, and penetrating primer or undercoat. It reacts with substrates to ensure better adhesion with excellent impact resistance properties on all surfaces. Ultra-Concrete Sealer is suitable for application over old and new concrete, slates, bricks, plaster and roof tiles.

Ultra-Paint

Ultra-Paint acts as a one-way membrane, allowing moisture to escape to the surface but prevents moisture ingress into the treated substrate. The Ultra-Paint product is a textured paint that can be used as an acoustic sound absorber on walls and ceilings. Although it is typically applied as a decorative finish on walls, it is ideal for obscuring building defects over a prolonged period of time.

Ultra-Metal Treat

Ultra-Metal Treat is formulated with an excellent rust-block additive that protects all types of metal against corrosion. The product is ideal for areas such as metal, rolled steel, mild steel, stainless steel, etc.

Ultra-Screed

Ultra-Screed flooring product recently underwent Anticorrosion and Slip testing by CSIRO, at the request of both the NSW State Rail Authority and Woolworths. The tests produced a remarkable result: a rating of R 12, making Ultra-Screed the first coating ever to achieve this rating, previously only possible with tiles. CSIRO Test Report No. 4149s certifies slip resistance classification of new pedestrian surface material (Ultra-Screed) at a mean overall acceptance angle of 30.7°, officially achieving the R12 rating. This result unlocks a whole series of new applications that remove the need for costly vinyl or ceramic tiles in high-traffic areas where health and safety are paramount such as retail or public transport situations.

Ultra-Clear Guard

Ultra-Clear Guard is water borne acrylic, electrometric membrane that is formulated as a clear product and which provides superb sealing qualities. It penetrates deep into the surface and reduces oil, grease, acids, and alkalis seeping into the surface and causing deterioration. The acrylic resin enables it to bridge hair line and minor cracks within the substrate. It also keeps dust down and forms a durable waterproofed surface, which is chemical and abrasion resistant. Ultra-Clear Guard is used alone as waterproofing coating where the natural colour is to be preserved, such as face brick, wooden doors and window frames, roof tiles, stones, etc. Furthermore, it could also be used as reinforcement to fibre glass to gain maximum benefit.

Ultra-Fire Guard

Ultra-Fire Guard is water borne acrylic membrane that is formulated in a variety of colours and provides sealing and fire retardant qualities. Ultra-Fire Guard is used to delay the normal thatch or brush fencing rotting process and subsequently lengthens the life of the roof or fence. It also keeps the thatch sturdy and prevents birds from pulling out thatch. If sprayed on the inside it prevents dust rains in the house. Ultra-Fire Guard waterproofs the roof, which will reduce the weight of the roof. It also eliminates the required frequent brushing and re-thatching of roofs.

Ultra-Line

Ultra-Line is pure acrylic emulsion paint for application to tar/bitumen and concrete roads. Its principal characteristics are:

- Low Volatile Organic Compounds (VOC), which ensure long lasting paint with less frequent application and no noxious fumes or odours during application
- Quick drying and low dirt pick up.
- Will not flake and deteriorate like conventional paint
- Supplied ready for brush/roller/spray application
- Excellent adhesion properties, which will maintain its sheen
- Excellent glass bead retention
- Drying time is 3 to 5 minutes at 21°C

A colour palette limited

