




Capability Statement

The many advantages of modern protective coatings



MCU-Coatings is the only paint producer worldwide that has achieved a “25+ years to first maintenance durability” approval in accordance with internationally accepted test standards with a 2-coat, 260µm DFT coating applied on weathered steel plates with a ST3 surface preparation.

About MCU-Coatings

Ahead of the pack

MCU-Coatings in Australia distributes a range of revolutionary, moisture cured urethane, protective coatings. They are single component, quick drying and surface tolerant, and react with atmospheric moisture to form polyurea linkages that bond tenaciously to both steel and concrete substrates.

Moisture-cured protective coatings are well known as a generic, applicator friendly, range of protective coatings that have been available for over thirty years. Since acquiring their initial formulations in the late 1990's, MCU-Coatings has continued to work with the inventor of the technology to systematically upgrade and develop their formulations.

The company's success and rise to prominence in the protective coatings market is directly attributable to this process of continuous improvement, and willingness to take advantage of technological advancements that have taken place in the last 20 years. These developments are now helping to redefine the market's expectations of this new generation of technologies.

In the last 30 years MCU-Coatings have been applied onto millions of m² of steel and concrete, including a myriad of large and specialty projects, over five thousand bridges, and hundreds of major hydro, marine, wastewater, offshore, petrochemical, pipeline and military projects all across the globe.

Combine this real case history, with all the independent test evaluations that have been conducted pursuant to international testing standards, and obvious application efficiencies, it is little wonder that MCU-Coatings is now making substantial inroads into the international protective coatings market.



Applicators

2-coat system for all seasons

- ✓ Single component
- ✓ 12 - 24 month shelf life
- ✓ Apply in 6% - 99% humidity
- ✓ Apply in -15°C - 50°C
- ✓ Brush, spray, roll
- ✓ High surface tolerance
- ✓ 30 minute recoat intervals
- ✓ Immersible after 30 minutes
- ✓ 25 - 30% elasticity

Does not crack, peel or flake, adheres tenaciously to existing coatings and works really well for ongoing maintenance and repairs.

Reduces coating application times by up to 50%, goes on much thinner than most other coatings, usually around 260µm DFT and never more than 300µm, even on C5 (marine and industrial) applications

The only way to make a lasting impression

Asset Owners

Reduce your maintenance costs by up to 80%

Asset owners usually bear the cost of weather events, temperature limitations and service disruptions. However with MCU-Coatings weather tolerant features, 30 minute recoat interval, and fast drying times, it is now possible to paint all year round, irrespective of most weather limitations, and return assets to service far quicker than any other protective coating system.

It is also possible to apply multiple coats and complete maintenance activities overnight with minimal service disruptions.

- ✓ **Do not crack or embrittle over time**
- ✓ **Outstanding adhesion**
- ✓ **Negligible corrosion creep**
- ✓ **High abrasion resistance**
- ✓ **High chemical resistance**
- ✓ **High impact resistance**



Validated Technologies

Revolutionary results

MCU-Coating's technologies have been extensively tested and evaluated in accredited laboratories in Europe and around the world, and every one of those laboratory tests and field evaluations (most of which have been in accordance with Norsok and Shell testing standards), have shown that MCU's coatings systems outperform all other traditional coatings.

Some of the more recent test approvals on our thin-film coatings are summarized below:

System: **MCU-Zinc + MCU-Miotopcoat**
DFT: 170+90µm
Substrate: Rusted steel
Surface Prep: ST3
Approval: ISO 12944-6, C5 VH ("Very high" +25 year durability)
SHELL DEP 30.48.00.31, F1.3 and F.1.2.a
NORSOK M501 System

System: **MCU-Miozinc + MCU-Miotopcoat**
DFT: 150+75µm
Substrate: Rusted steel
Surface Prep: ST3
Approval: SHELL DEP 30.48.00.31, F1.3 and F.1.2.a

System: **MCU-Miozinc + MCU-Miomastic + MCU-Miotopcoat**
DFT: 100+125+75µm
Substrate: New steel
Surface Prep: SA3
Approval: SHELL DEP 70.48.11.30, code FC1-N/M (new and maintenance)
NORSOK M501 System 1

System: **MCU-Miozinc + MCU-Miomastic + MCU-Miotopcoat**
DFT: 100+100+90µm
Substrate: Rusted steel
Surface Prep: ST3
Approval: SHELL DEP 30.48.00.31, F1.3 and F.1.2.a
NORSOK M501 System 1

System: **MCU-Miozinc + MCU-Miotopcoat**
DFT: 140+80µm
Substrate: New steel
Surface Prep: SA2.5
Approval: ISO 12944-6, C5 I&M H (Industrial and Marine High)

Numerous tests have also been carried out on our individual products, with most of our protective coatings having survived in excess of 10,000 hours of salt spray testing without showing any significant corrosion creep or loss of adhesion (Note: most testing standards have a 600 - 1,000 hour benchmark because they are so destructive).

These remarkable results, in combination with our published case studies constitute an extensive body of evidence that you can rely on to deliver long-term corrosion protection.

MCU-Coatings are special because they have outstanding adhesion, >25% elasticity, and are not prone to embrittlement or cracking



Protection you can rely on

Primers

MCU-ZINC

Zinc-rich primer with high surface and DFT tolerance. Versatile, easy to use, corrosion resistant primer. Tolerates damp surfaces and fast immersion. For any type of surface prep including UHP, dry, wet abrasive, power and hand tool.

MCU-MIOZINC

Industries best MIO + zinc filled primer. Good surface and DFT tolerance. Tolerates damp surfaces. For any type of surface prep including UHP, dry, wet abrasive, power and hand tool.

MCU-ALUPRIME

Penetrating sealer or primer. Use as a universal primer on minimal prepared surfaces. Also works well as an intermediate barrier coating.

Specialty Products

INSULAT-230

Thermal insulation product. Reflects or emits 98% of the radiant energy that comes in contact with MCU-Insulat 230. Protects personnel from burn hazards on hot or cold structures and equipment and significantly reduces corrosion and rust formation.

MCU-Ecodegreaser

A pH neutral dispersant for the removals off stubborn oil, grease and petroleum. Suitable for most substrates, including textile fabrics.

MCU-Ecocleaner

Single component, water based gel to remove hydroxides, metal oxides, mill scale, green algae, humus, barnacles and limestone deposits on corroding ferrous metals. Can be used on steel, stainless steel, masonry, stone and polyester. Is environmentally friendly, non-flammable, non-toxic and biodegradable with a pH >2.

Intermediates

MCU-MIOMASTIC

MIO-filled mastic intermediate and functional non-UV finish coating. Best choice for over-coating old and lead based coatings. Also used as a standard primer for concrete.

MCU-MASTIC NS

Approved potable water coating. Smooth universal intermediate coating and functional non-UV finish. Use over MCUs zinc primers. Also used as a standard primer for concrete.

MCU-FERROGUARD

MIO filled functional coating. Replaces coal tar epoxies. Immerse in one hour. Cold weather cure. Primarily used for marine, offshore, wastewater, hydro applications exposed to salt/fresh water or sewage treatment.

Additives

MCU-QUICKCURE

100% solids additive designed to accelerate the cure of MCU Coatings up to 10 times faster. Also improves film build and inter-coat adhesion.

MCU-THINNER

Paint thinner used for clean-up, diluting the product and creating a vapour barrier in the drum that prevents products from curing.

Topcoats

MCU-MIOTOPCOAT

Limited to low gloss colors. Longer life than 2-component PUs. High resistance to chalking and peeling. Highly durable and used extensively on bridges, offshore, marine and industrial applications. MIO modification greatly extends a coating's life and allows easy over-coating years later.

MCU-SHIELDCOAT

High gloss, aliphatic topcoat. Outstanding colour gloss retention and chemical resistance. Used extensively on offshore marine and industrial structures.

MCU-TOPCOAT

Semi-gloss, aliphatic coating. Outstanding colour, gloss retention and chemical resistance. Used extensively on offshore marine and industrial structures.

MCU-CLEARCOAT

High sheen, aliphatic clear coating. Excellent chemical resistance. UV resistant clear topcoat for use on special projects.

MCU-ALUTOPCOAT

Aluminium filled urethane. Durable, abrasion and water-resistant. Used extensively to recoat galvanized coatings. High impact resistance.

Market Sectors

With our product range we've got you covered

Coatings have to withstand extreme weathering conditions. They also need to be easy to apply and maintain in different climates, which is yet one more reason why MCU-Coatings stand apart in this crowded space. Now if we also told you that MCU-Coatings are really good at overcoating existing paint and galvanic surfaces that would just make them even better. So no matter what industry or market sector, there is absolutely no excuse for not using the best, most efficient and most resilient corrosion protection products on the market because they will save you money, reduce your service disruption and protect your underlying assets - and that is guaranteed.

Utility Providers

- Roads, tunnels and bridges
- Rail
- Water and waste water treatment plants and pipe lines
- Electrical power lines
- Hydro electricity
- Thermal electricity
- Power stations
- Wind farms
- Telecommunications

Oil & Gas

- Tank farms
- Offshore
- Pipe lines

Marine

- Wharves, jetties, sheet piles
- Cranes
- Ferries
- Ships
- Super yachts

Mining

Industrial & equipment

Concrete floors

Asbestos and lead encapsulation

Food and beverage equipment and facilities



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