

## Reducing application and life cycle costs



MCU-Coatings® produces the world's best performing **single component** moisture cure polyureas. How can the O&G industry in Australia benefit from the use of the technology?

### Application

- Excellent adhesion to minimal surface profile, MCU-Zinc and MCU-Miozinc adhere to old coatings and minimum Sa2 prepared substrates
- MCU-Coatings® adhere to surface roughness of less than 25µm, MCU-Miozinc primer tolerates flash rusting
- No catalysing or mixing required, one coating, one thinner
- Can be applied from 6% to 99% humidity, no dew point restrictions
- Cure times as short as 20 minutes, immersion proof within 30 minutes of application
- Low film thickness requirements allow faster applications than conventional coatings
- Tolerant to salt contaminated substrates, can be applied to sweating pipes



### Life Cycle:

- Durable corrosion resistance, ASTM salt spray resistance > 20 000 hours
- Blister resistant, micaceous iron oxide in coating layers allows vapour to dissipate without forming blisters and reduces water absorption
- High chemical resistance due to polyurethane cross linking
- UV resistant, tropical UV exposure testing has proven a UV resistance of 95% after 36 months of exposure
- Flexible resin resists cracking and impact damage over long term exposure
- MCU-Coatings® typically come with 10 years warranty

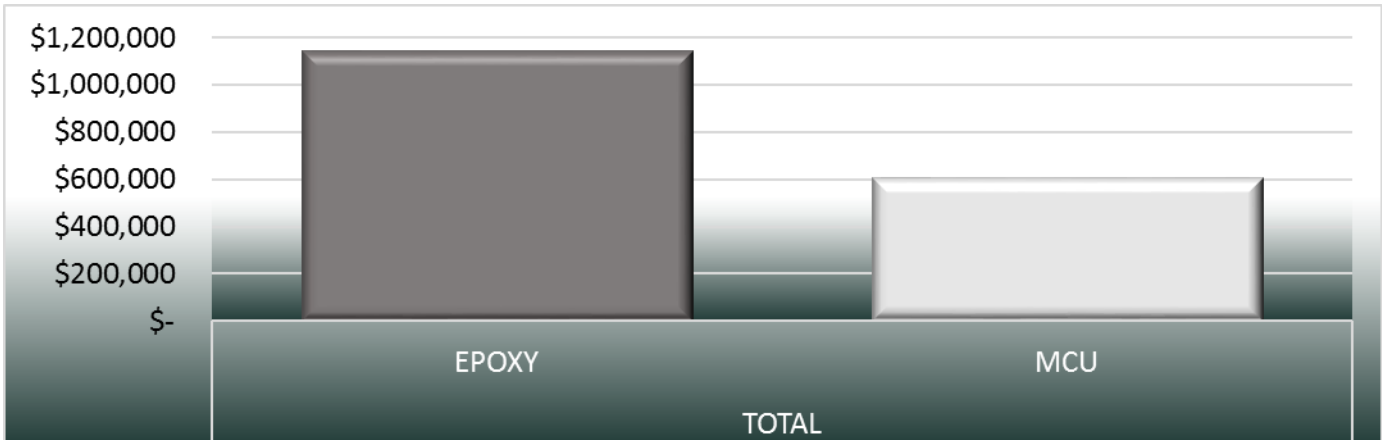
## Reducing coating campaign costs



**This case study is for a crude storage tank in WA, with an area of approximately 4000 m<sup>2</sup>. The tank was coated using a three layer 800 micron epoxy system, and costs and time requirements are compared to those of a similar job performed with a typical two layer 250 micron Miozinc / Topcoat MCU system.**

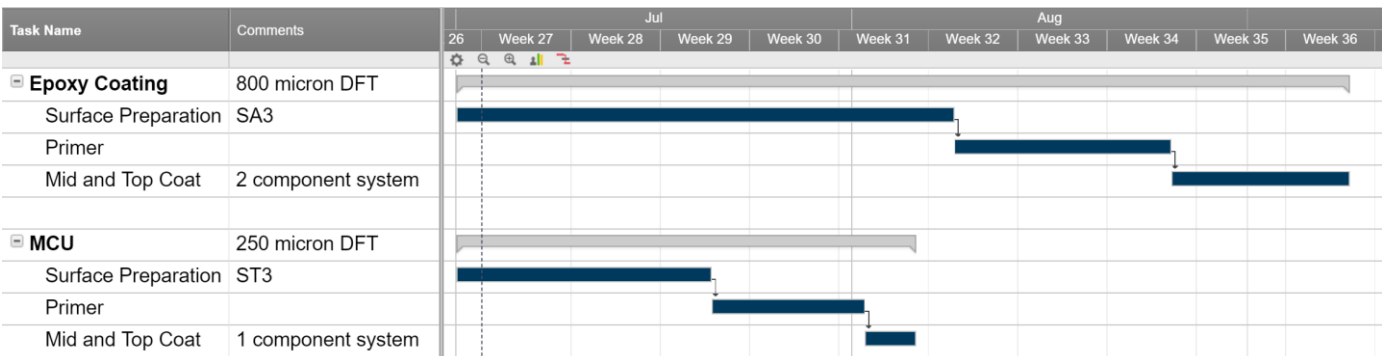
Cost estimates include:

- Total surface preparation costs, including labour and materials
- Coating costs, including labour and materials



Further savings that would be realised through the use of MCU, not included in the above costs:

- Scaffolding costs: Shorter job duration means lower scaffolding costs
- Weather related delays: MCU system is more flexible in regards to weather, lowering delays
- Materials transport and disposal costs: Lower material consumption means lower materials transport and disposal costs, and an overall more environmentally friendly job.



## Reducing application and life cycle costs



**This case study compares MCU and typical two component epoxy coating, including initial campaign cost, intervals between applications, and life cycle costs .**

*This case study is for coating 100 m of 12" pipe and a simple 6 m x 3 m vessel.*

*Cost estimates included are:*

- Surface preparation costs / m<sup>2</sup>
- Coating material costs / m<sup>2</sup>
- Labour costs, including expected downtime due to weather restrictions etc.

*Not included:*

- Scaffolding costs
- Materials transport and disposal costs

