

25/06/2008

Re: Thin film MCU Technology

To: Whom it may concern,

25 Years field performance and extensive lab testing have proven that thin film 3 coat MCU systems outperform traditional 3 to 5 coat high performance coating systems using only an average 60% of the total typical DFT.

Typical examples out of the field would be:

1. in aggressive marine environments: a 375µm DFT 3 coat MCU system based on MCU-Miozinc, followed by 2 coats of MCU-Ferroguard outperforming a 4 coat coal tar epoxy system at 600µm DFT. (62% of the typical DFT)
2. in ballast tanks: a 225µm DFT 3 coat MCU system based on MCU-Miozinc, followed by 2 coat of MCUMastic outperforming a 3 to 4 coat epoxy system at 380µm DFT. (59% of the typical DFT)
3. on bridges: a 200µm DFT 3 coat MCU system based on MCU-Miozinc, followed by MCU-Miomastic and MCU-Topcoat outperforming a 3 to 4 coat epoxy/PU system based on an inorganic zinc or lead based primer or even a 5 coat vinyl system.
4. on RoRo decks: a 155µm DFT 3 coat MCU system based on MCU-Miozinc, followed by 2 coats of MCUALuprime outperforming epoxy glass flake and ceramic epoxy systems at 2000µm DFT. (7.5% of the typical DFT)

The secret why MCU systems perform so well, even at low DFT, is in the cure and the resin. MCU systems are highly cross linked moisture cured polyurea coatings. This makes the coating very:

1. Impermeable
2. Flexible
3. Chemical resistant
4. Impact resistant
5. Abrasion resistant
6. Blister resistant

This has been proven in numerous tests around the world – which we would be pleased to provide you with relevant details.

If you have any questions please contact Trident Coatings.