

## Galvanisation compared to MCU primers

### Performance advantages :

Steel protected with 75µm to 100µm MCU-Miozinc has comparable performance to 125µm galvanisation when exposed to inland atmospheric exposure up to ISO Classification 12944-2 C3 Medium (Urban & Industrial atmospheres, moderate sulphur dioxide pollution. Coastal areas with low salinity). This was tested by the US Galvanisers Association in the U.S.. There is no published documentation available.

A single coat of MCU-Miozinc at 100-125µm will outperform 125µm of galvanisation when the classification of the environment is equal or higher to ISO 12944-2 C4 High. Especially when there is possibility for (atmospheric) chemical attack, the life time expectancy of galvanised substrates will decrease rapidly where MCU-Miozinc has excellent chemical resistance. Further, galvanised materials are more sensitive to cracking on areas where the galvanisation is applied at excessive film thickness. MCU-Miozinc is a 100% PU that passes the ½ inch Conical Mandrell Bend test. It has the ability to elongate 36% without breaking in the film.

### Application advantages:

MCU-Miozinc can be topcoated directly with a coloured topcoat. Usually, galvanised substrates need an etch primer before the next coat(s) can be applied. With traditional systems, 2 coats are required if extra protection or colour is desired. Also, a minimum profile needs to be created on the galvanised substrate. This is usually created chemically, manually or by natural aging. MCU-Coating's MCUMiozinc can be overcoated without extra surface preparation and without maximum overcoat window. Due to superior adhesion of MC-Coatings, galvanised substrates with a minimal profile can be directly overcoated with MC-Ferrox A or MC-Luster at 75µm DFT. Please contact us for specific information for overcoating galvanised surfaces.

When Quikcure is used, the cure time of MCU-Miozinc can be reduced by 80%.

Recent salt spray testing of a single coat of MCU-Miozinc have proven no corrosion from the scribe line after 6000 ASTM B 117 Salt Spray testing. MCU-Miozinc was applied at DFT 90µm.