

WHAT IT MEANS TO EFFECTIVELY 'WET THE SURFACE'

Polyurethanes / Epoxies vs. MCU-Coatings

'Zinc-rich' 2-component epoxy and PU primers do not wet-out properly because:

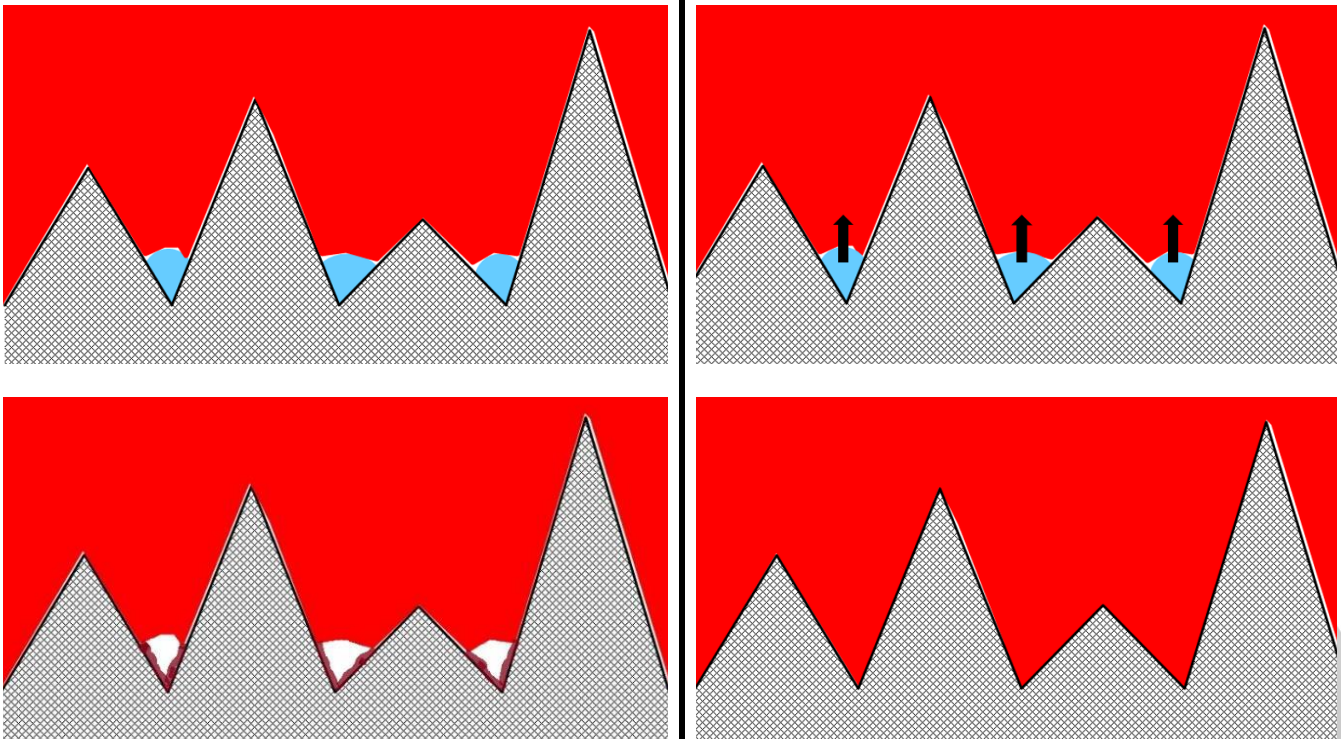
- a) they trap the micro-moisture on the surface as they are being applied;
- b) the entrapped moisture reduces the polar bond between the resin and substrate; and
- c) the lack of resin means that the primer is unable to effectively wet-out the surface.

The surface moisture thereby results in uncoated areas, and areas where the resin is just too thin because of the zinc loading to provide any meaningful protection. These 'resin deserts' are the cause of adhesion failures, under-creep corrosion, premature ageing, loss of impact resistance and resin micro-cracking.

Conversely, **MCU-Coatings'** primers wet-out and penetrate the surface profile far more effectively because:

- a) the micaceous zinc additives are small enough and have a better profile to effectively wet the surface;
- b) they contain more resin; and
- c) the resin cure is activated by the presence of any moisture, so the resin is pulled into the surface crevices as it absorbs 100% of the available micro-moisture during the curing process.

Within minutes after being applied the micro-moisture on the surface is removed and replaced with our moisture cured urethane primers so there are no uncoated areas left behind. They are also able to develop a strong polar bond that resists under-creep corrosion and premature ageing.



Just one more reason to join the MCU revolution