



**CURE-2-GO:  
ANQUAMINE® 728  
CURING AGENT  
NEW EPOXY FLOOR COATINGS  
WITH UNRIVALLED FAST CURE  
AND IMPROVED AESTHETICS**



## **“WHAT PROBLEMS KEEP YOU UP AT NIGHT?”**

A simple question to customers that displayed unmet needs in today's industry floor coatings: – *“I need to reduce my floor system cost ... I want coatings with improved robustness under adverse cure condition ... And also, I need good aesthetics and an epoxy system that meets stringent VOC/emission requirements”*. In the application of epoxy industry floors, a maximum of four hours is acceptable to wait in between applying the primer and the topcoat, irrespective of cure conditions. Customers confirmed: *“Anything longer than four hours and we will [have to] send the application team home, only to come back the next day again.”* Challenging targets. Especially given the fact that fast-cure epoxy systems require 8-12 hours at low temperature cure (10°C / 50°F) before receiving a second coat and generally these systems suffer from carbamation.



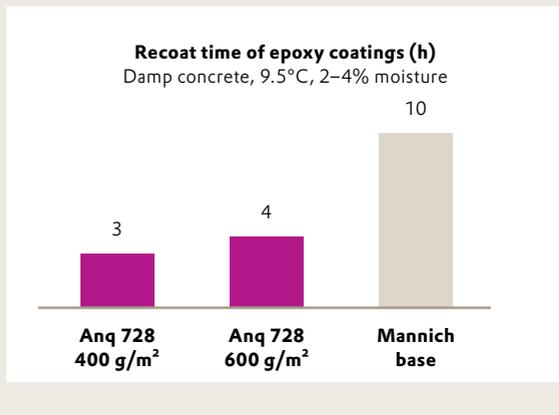
Evonik Crosslinkers answers these unmet needs with the commercialization of Anquamine® 728. The new product is a waterborne amine curing agent that offers fast cure and good aesthetics, for use in epoxy primers and topcoats on concrete substrates. Combined with Ancarez® AR-555 solid epoxy resin dispersion, it yields a primer with recoat times of less than four hours at 10°C / 50°F and excellent adhesion to damp concrete. Topcoats are best formulated with diluted liquid epoxy resins for excel-

lent aesthetics and good compatibility with pigment pastes. Anquamine® 728 based coatings have a low tendency to carbamation and waterspotting and can be applied up to 500 g/m<sup>2</sup> / 20 mils wet film thickness. Two coats per day and next day back-in-service enables applicators to improve productivity and save cost/m<sup>2</sup>. The end-user receives a floor system that comes with excellent aesthetics and has potential to meet stringent emission requirements. That's Cure-2-Go with Anquamine® 728!



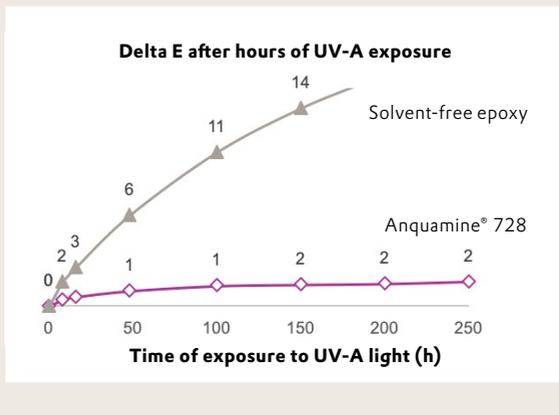
**Figure 1**

Recoat time of epoxy coatings to damp concrete at low temperature cure condition. Comparison of Anquamine® 728 (Anq 728) versus a fast-cure mannich base epoxy system.



**Figure 2**

Comparison of Delta-E as a function of hours of UV-A exposure: White epoxy coating based on Anquamine® 728 versus an equivalent coating based on solvent-free epoxy technology.



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