



## HOW TO INCREASE THE PERFORMANCE OF THE BLASTING PROCESS AND REINFORCE THE ADHESION STRENGTH OF DIFFERENT COATINGS ?

### #1

#### Context



*One of the largest rebar coating factories in the UAE situated in Abu Dhabi has contacted us in order to increase the performance of their blasting and their coating process . Indeed, they were facing several problems affecting the adhesion strength of the different coatings : inconsistent surface profile, high levels of dust on the blasted surfaces & non-regular cleanliness. But the main point of focus has been the rebars epoxy-coating line, which was working with a 50/50 mix of GL25 and GL40.*

### #2

#### Actions



- ✓ On-site **process audit** by a W Abrasives expert, followed by **trials in Test Center** to identify the most relevant product to solve the identified issues.
- ✓ **Custom training session** for the technical management, with a focus on the actual customer process and how to master it.
- ✓ Introduction of the **Premium product Surfium SR600** in the rebars coating line for a 6 month trial in real conditions, with **technical support** of W Abrasives team.
- ✓ Trial debrief with the different stake holders in order to confirm under actual process conditions the results achieved in the W Abrasives Test Center, acknowledge the benefits brought by the new solution and approve Surfium for regular production.

### #3

#### Results



- 12.5%

*On abrasive consumption*



+ 17%

*On coating adhesion strength thanks to a reduced dust level (from class 3-3 to class 2-2) and a more consistent surface profile (Rz 70 µm - Rmax 77 µm)*



**productivity**

*Maintained productivity*

