

Metaalbescherming Katwijk (MBK) / Invista

PPG SIGMAFAST™ 278
improves delivery times for
in-shop manufacture

Case study



The Customer

Invista Netherlands b.v.

The Location

Rozenburg Holland

The Challenge

To reduce handling time; ensure faster delivery from the paint shop

The Solution

PPG SIGMAFAST 278

The Benefits

- Fast drying
 - Broad application thickness range
 - No induction time
 - Wide temperature application range
 - High solids
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The Result

- A two-layer system providing the same protection as a traditional three-layer system
 - A two-layer system has numerous advantages:
 - Shorter shop time
 - Faster delivery
 - Shorter build time
-

The Customer

Metaalbescherming Katwijk (MBK), located in The Netherlands, is part of the Oosting Group and is large-scale operator in steel bar preservation.

MBK has a production capacity of approximately 12,000 m² per week, which means a supply over 2,000 m² of metal coating each working day. On average, 350 tons of construction material per week is blasted and coated with a conservation system, comprising one to four layers. Thanks to an ultramodern production environment, the work is done efficiently and to a high-quality standard in six production halls.

The end user, Invista, is a global company involved in intermediate chemical technologies, high-performance polymers, and differentiated fibre and other downstream products. The construction contract for the Invista nylon plant was won by ASK-Romein, with production at the plant due to start by the end of 2012.

The Challenge

A key issue for MBK, like many other organizations, is that it has to compete with others for business in the current, tough economic market conditions in The Netherlands. Therefore, when MBK was considering coating suppliers for the new nylon salt factory at Invista's manufacturing plant, PPG's extensive experience and expertise in this sector offered the most effective solution.

The PPG sales team convinced MBK of the advantages of the PPG SIGMAFAST 278 product by a successful demonstration in their paint shop.





The Solution

PPG provided a robust, competitive protective solution for this new-build project with the PPG SIGMAFAST 278 system. Its innovative phenalkamine technology, low-VOC content and two-layer application were major factors in the customer's decision.

The economical and efficient coating is easy to apply with airless equipment and produces excellent fast-drying times, being touch-dry after 1 hour and ready for overcoating after 2 hours – resulting in a quicker application process.

In total, the project covered 7,500 m², and used 5,000 liters of the PPG SIGMAFAST 278 product. The paint system comprised:

- PPG SIGMAFAST 278 at 200 microns
- PPG SIGMADUR™ 520 at 60 microns

The traditional application system was used with a primer at 75 microns, midcoat at 125 microns and a topcoat at 60 microns.



The Benefits

The PPG SIGMAFAST 278 product has excellent application properties, and also delivers improved manufacturing times for new-build projects, thereby increasing productivity and improving profitability.

The PPG SIGMAFAST 278 high-solids zinc phosphate epoxy primer and buildcoat is now the ONLY coating on the market that combines 80% of volume solids with excellent fast-drying properties in one product.

This two-layer system gives the same protection as a traditional three-layer system. In addition, the PPG SIGMAFAST 278 coating offers:

- No induction time
- Broad application thickness range: 75 microns to 250 microns
- Wide temperature application range with only one curing agent: -5°C to 40°C
- Low-VOC content: 230g/L and 153g/kg maximum, complying with the latest VOC legislation

The Result

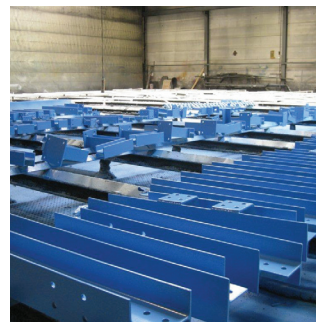
With such a large area of metal to be covered, the PPG SIGMAFAST 278 coating proved to be the ideal solution for the customer.

The two-layer system ensures shorter build time and improved delivery schedules. Ease of application and quick recoating enables the customer to process the metal more efficiently, reduce manufacturing time and increase productivity.

MBK is satisfied with the result. Especially the applicability:

“ It is all about speed here, the faster we can turn the steel around the better”

“ It sprays very well, the smell is good, and now we use a mist coat before the thick layer PPG SIGMAFAST 278 it works very well”



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