

# PPG SIGMAFAST™ 278

Quicker application delivers less downtime, improved productivity and lower costs

## Case study



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### The Customer

SGTM

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### The Location

DICASTAL Factory at Kenitra, Morocco

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### The Challenge

To provide a fast-drying coating system to coat 1,000 tons of steel structures in 30 days for a C3 high environment category

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### The Solution

The PPG SIGMAFAST 278 primer/buildcoat and the PPG SIGMADUR™ 550 finish coat

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### The Benefits

We were able to apply two coats in one day, which allowed stocking areas and production lines to be freed for use very quickly

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### The Result

Our quick application enabled the project to be completed in 30 days. The system's fast-drying properties led to fewer touch-ups and less mechanical damage after handling and erection

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### The Customer

SGTM is the major EPC and steel manufacturer in Morocco, with a capacity of producing 1,200 tons of steel per month. The company was established 1971 and has developed a solid and accumulated experience in many different segments, including Infrastructure, Plants and Facilities, and Energy.

Experience in major national works and large-scale projects, with a very high level of technical complexity, has helped to expand and diversify its sphere of expertise, making it a national leader in the construction industry. SGTM intends to continue its momentum through involvement in strategic projects such as the construction of the LGV, the new industrial plan of the OCP and the development of port and airport infrastructure.

### The Challenge

For SGTM, or any other steel manufacturer, producing and manufacturing a large quantity of steel is standard practice. However, the painting department has always been the bottleneck of the production line and the task was to increase their productivity.



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### The Solution

Previously, with other competitor coating systems, the coating process took at least 2 to 3 days. Using our PPG SIGMAFAST 278 product, we were able to apply two coats in one day and deliver the next day with limited damage to the steel due to handling.

The chosen coating system comprised:

- PPG SIGMAFAST 278 rapid-drying primer/buildcoat @ 100 µm
- PPG SIGMADUR 550 durable finish coat @ 50 µm

Our system is easy to apply with airless equipment and produces outstanding fast-drying times. Consequently, the paint is touch-dry after only one hour and ready for overcoating after two hours, which results in a quicker application process and less downtime for the customer.

### The Benefits

The PPG SIGMAFAST 278 zinc phosphate epoxy direct-to-metal (DTM) primer/buildcoat is specifically designed for shop and field applications. Its unique film build capabilities, dry time, recoat window and volume solids has proven its value to a wide range of owners and applicators.

Combined with its good resistance to abrasion and various substances, the robust coating has exceptional application properties and also delivers improved manufacturing times for these projects, thus increasing productivity and improving profitability.

The system has also enabled the customer to increase its monthly delivered volumes and meet tough deadlines.

Our PPG SIGMAFAST 278 two-component, zinc phosphate epoxy primer and buildcoat offers a unique range of features and benefits:

### Key Benefits

- High solids: 80% of volume solids results in less waste
- Fast drying time, which enables handling soon after application: touch-dry after one hour and dry to overcoat after two hours at 20°C (68°F)
- Wide range of corrosion protection to durably protect customers' assets with only two coats
- Broad range of application thickness to enable high dry-film thickness in one coat: 75–250 microns (3–10 mils)
- Wide, flexible temperature range allows application in all seasons: -5°C (23°F) to 40°C (104°F)
- No induction time
- Easy to apply
- Low-VOC content

### The Result

The PPG SIGMAFAST 278 system has helped increase our customer's productivity and also reduce their labor cost as well.

Speed of application, excellent abrasion resistance during handling and shortened dry time all contributed to the customer benefiting from less downtime and disruption to production.

"We were impressed by the PPG SIGMAFAST system's ability to resist damage during production, fast-drying time and the speed at which it was applied, which greatly reduced the impact on our manufacturing schedule," said Abdeljalil Toukrichte, SGTM Painting Department Manager.



DICASTAL in Kenitra, Morocco

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