

Reduced energy costs and increased productivity through faster drying with SEMCO FD coatings



SUSTAINABILITY

THE CHALLENGE

The customer wanted to improve core shop output, accelerate the coating drying rate and reduce energy consumption. It was important to them to have as good as or better casting surface finish and reduce their overall casting manufacturing cost.

FOUNDRY:

Global Castings Foundry – specialised in wind turbine castings

PARAMETER

Alloy: SG Iron

Casting weight: 3,000 - 12,000 kg

Pouring temp.: 1,250°C - 1,450°C

Pouring weight: Up to 22,000 kg

Moulding Process: Furane sand

FOSECO PRODUCTS

SEMCO* FD coatings

SEMCO coating

ESHANOL* binder

CATASET binder

SEDEX* filters

FEEDEX* sleeves

REDUCED
CO₂



ENERGY
EFFICIENT



OUR SOLUTION

SEMCO FD is a range of water-based coatings designed for flow coating applications that will dry quicker than traditional water-based products. The range includes products with a variety of refractory fillers making them suitable for different metal types and casting conditions.

THE OUTCOME

Through the use of the SEMCO FD, the customer found 50% faster core / mould drying cycles. They significantly reduced CO₂ output due to 50% less energy consumption in the drying process. The coating application was improved due to lighter filler combination applied and zircon was removed from the foundry.

KEY BENEFITS

- Faster drying speed
- Reduced energy costs
- Easier coating handling

Core after coating application



Finished core – 50% faster supplied to moulding line

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THINK BEYOND. SHAPE THE FUTURE.



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