

# **PROJECT**

Prill Tower, Fosfertil Urea Plant, Curitiba, Brazil

#### **SUMMARY**

Reinstatement of cover to steel reinforcements inside Prill tower

## **PRODUCTS**

**Cemprotec E942 Monomix HD Steel Reinforcement Protector 841** 

## **CLIENT**

Fosfertil S.A.

## **CONTRACTOR**

Maker Engenharia Ltda

## **BACKGROUND** ▶

Fosfertil is Brazil's largest producer of raw materials used in fertilisers.

At this plant, urea is deposited down a tower to form pellets. This results in a hot and chemically aggressive atmosphere which quickly attacks normal concrete to cause spalling and corrosion of the steel reinforcement. The worst areas were recorded in the top 15m of the 100m tower where the concrete cover was almost completely eroded.

## THE SOLUTION ▶

The urea deposits which had accumulated on the prill tower were mechanically removed. All exposed steel reinforcement was protected with Steel Reinforcement Protector 841 and concrete repairs to the heavily damaged areas in the top section of the tower were undertaken with Monomix HD, chosen for its high build The workers abseiled down the tower in order to spray-apply characteristics. Cemprotec E942, an epoxy cementitious coating, which is applied directly to the concrete. Cemprotec E942 was selected to give long term protection against abrasion and chemical attack from the urea.





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