



● CEMENT/CONCRETE

Concrete Block Factory Case Study Meppel, Holland

HydroFLOW® eliminated repeated acid cleaning in a concrete block factory pipeline system while maintaining high water flow and reducing downtime.

75%

Cleaning Cost Savings

2x

Annual Acid Cleans
Removed

1 yr

No Cleaning Required

24/7

Continuous Operation

⇒ BEFORE & AFTER

● BEFORE

- ✗ Pipeline scaled up twice yearly
- ✗ Pump and pipeline needed acid cleaning
- ✗ Downtime affected production

● AFTER

- ✓ Flow rate remained consistently high
- ✓ No cleaning required after install
- ✓ Downtime and labour reduced

OVERVIEW

Xella International GmbH is one of the world's largest producers of concrete blocks under the Ytong Blocks brand. Their factory in Meppel, Holland experienced severe scale buildup in the cold water pipeline supplying the cement manufacturing process. Both the pipeline and pump required acid cleaning twice per year, creating disruption for the site's continuous operation. *HydroFLOW®* was installed to reduce scale buildup and protect the pipeline and pump system.

CHALLENGE

Scale buildup caused repeated acid cleaning and production disruption.

- Pipeline scaled up twice every year
- Pump required regular acid cleaning
- Continuous operation increased downtime impact
- Scale reduced flow performance in the system



SOLUTION

A *HydroFLOW*® P60 unit was installed to protect the pump, *HydroFLOW*® i100 unit protected the main process pipeline.

UNIT INSTALLED

1x *HydroFLOW*® P60 and 1x *HydroFLOW*® i100

APPLICATION

Cold water cement manufacturing pipeline

INSTALLATION DATE

December 2014

INSPECTION DATE

January 2016



INSTALLATION

On process pipeline



RESULTS

Flow Rate Maintained

Water flow remained stable throughout operation

No Cleaning Required

Pump and pipeline avoided acid cleaning for over a year

\$ 75% Cost Reduction

Cleaning labour and downtime costs reduced

Pump Protected

Scale formation on the pump was reduced

Production Protected

Manufacturing operations remained uninterrupted

Scale Formation Reduced

Scale buildup in the pipeline system was minimised



TESTIMONIAL

"So far we can say that the water flow rate in this system has remained the same, if not slightly more. This year we didn't have to clean the pipe and pump by acid yet."

— Head of Technical Services

KEY TAKEAWAY

Summary

Hydropath treatment helped Xella Ytong Concrete Blocks reduce scale buildup and maintain stable water flow at its Meppel facility while lowering cleaning and downtime requirements

75%

CLEANING COST SAVINGS

2x

ACID CLEANING AVOIDED

24/7

CONTINUOUS PRODUCTION

HYDROPATH

The Forefront of Sustainable Water Treatment

HydroPath Technology is a world leader in sustainable water treatment solutions, providing chemical-free alternatives for industrial and commercial applications across more than 50 countries.

50+

COUNTRIES

30+

YEARS EXPERIENCE

1M+

UNITS INSTALLED

RELATED CASE STUDY

Concrete Plant Boiler Scale Control Case Study

United States

HydroFLOW® i100 units were installed on boiler feed lines at concrete plants across the United States to control scale caused by hard water. The systems reduced maintenance, lowered chemical use, and improved boiler efficiency while delivering reliable operation over 6 years.

6 Years Proven Performance

Successful long-term boiler operation maintained across multiple concrete plant sites

No Scale Build-up

No significant scale accumulation observed after HydroFLOW® installation

Reduced Chemical Usage

Lower chemical dosing achieved while improving boiler efficiency and reliability



Ready to reduce chemical dosing?

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