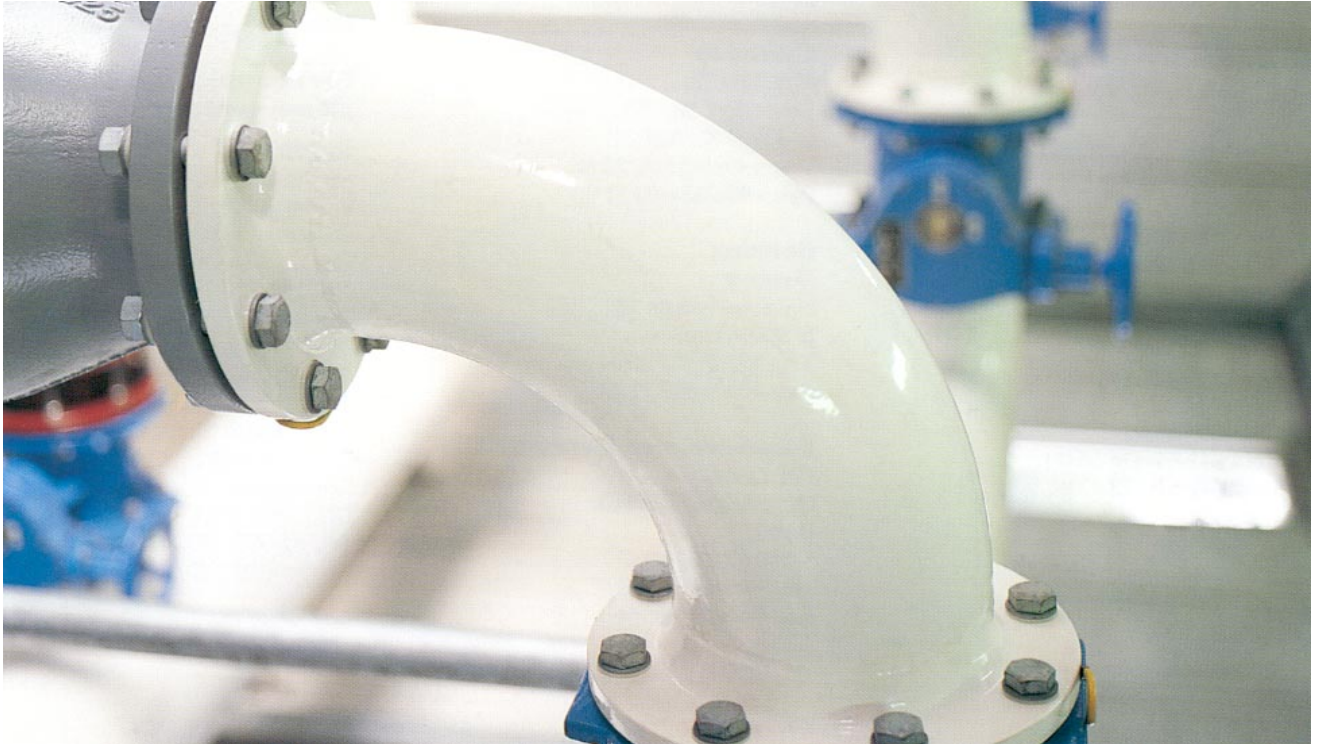




Abcite®

Corrosion Protection



Durable protection against corrosion in water distribution equipment

Contractor:
TMVW
In Ghent, Belgium

Project:
Corrosion resistance in waterwork installations is of utmost importance. The regional authorities of Ghent were looking for a reliable coating to protect the inside of the equipment against the influence that the particular composition of surface water can have on the final drinking water. The outside of the pumps had also to be protected against aggressive media and condensed moisture. Moreover, and in accordance with the Belgian law, the coating had to be such as not to harm human health, and to prevent germ formation.

Problem:
In seven months alone, almost 700 000 cubic meters of surface water, reaching the Zelzate waterworks from the Netherlands, had been turned into drinking water and forwarded to Ghent by a minimum of two pumps at a time, functioning 24 hours a day.

To avoid maintenance expenditures and possible rust incrustations on tubes, shaped parts, flap valves, slides and boilers, the waterwork equipment has been coated with Abcite® thermoplastic powder from DuPont, using either spraying or a fluidised bed process, depending on the parts.

Solution:
As a rule, conventional thin coatings used in waterworks are not sufficiently reliable, whereas multi-layer coatings require plenty of time to produce. In this particular case, all the tube parts have been coated with Abcite®, a product developed specially for corrosion protection, which is available in a variety of standard colours. Abcite® belongs to the DuPont family of reversible cross-linked copolymer powder coatings which are easily applied electrostatically after preheating the metal parts. The 400 µm-thick layer of Abcite® provides a non-porous, maintenance-free and non-toxic finish.

All parts can be easily and rapidly repaired on-site, should damage occur. Although no primer or adhesion promoter is needed, adhesion to metals is better than with most thermoplastic powder coatings commonly used today. The Zelzate waterwork installation has thus been running smoothly since 1996, the date when its equipment was first coated with Abcite®.

Benefits:

- Abcite® resists corrosion.
- Abcite® has high impact strength.
- Abcite® adheres well to all parts without an adhesion promoter.
- Abcite® does not propagate microbes.
- Abcite® achieves a smooth, non-porous surface.
- Abcite offers excellent resistance to most kinds of water.
- Abcite® is physiologically and toxicologically safe.
- Abcite® conforms to different national water legislation

Application case history

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DuPont Powder Coatings