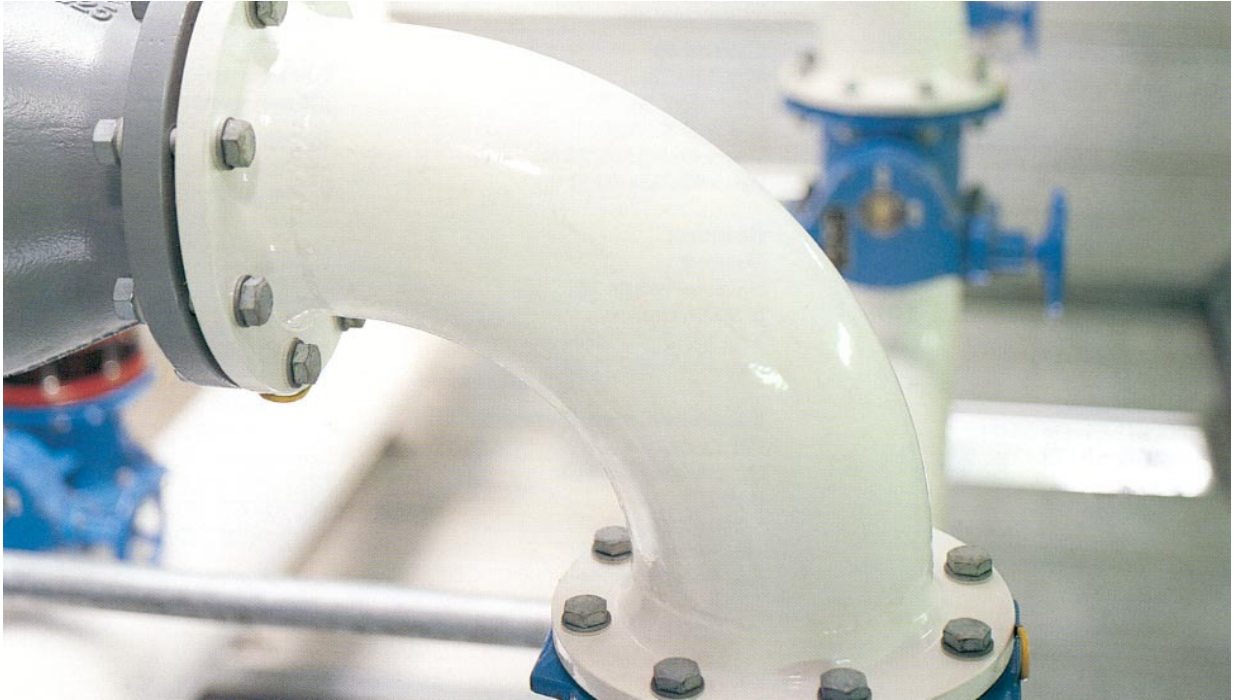




Abcite®

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

For further information on **Abcite®**, please contact:

Benelux

Duracoat
Nijverheidstraat 34
B-2620 Hemiksem
Tel. +32 3 887 90 41
Fax. +32 3 887 11 12

Denmark / Norway

Decorona A/S
Sydmarken 32F
DK-2860 Søborg
Tel. +45-39-66-31-17
Fax. +45-39-66-98-80

France & Eastern Countries

Groupe Arnaud
68, Av. Du Général Michel Bizot
F-75012 Paris
Tel. +33-1-44 73 11 30
Fax. +33-1-44 73 10 14

Germany

DuPont Polymer Powders
Postfach 510748
D-50943 Köln
Fritz-Hecker Str.47-107
D-50968 Köln
Tel. +39 221 37 06 533
Fax. +39 221 37 06 144

Italy

Finco srl
Viale Bianca Maria, 13
20122 Milano
Tel: ++39 02 760 13 701
Fax: ++ 39 02 783 701

Spain / Portugal

DuPont Powder Coatings Iberia Sarl
Carretas Molins de Rei 83-85
E-08191 Rubí / Barcelona
Tel: ++34 93 586 0580
Fax: ++34 93 586 0583

Sweden / Norway

Korroterm
Box 42
S-590 62 Linghem
Tel. +46 13 35 70 72
Fax. +46 13 70 544

Switzerland

Centrachem AG
Im Feld
CH-4624 Härkingen
Tel. +41 62 398 21 61
Fax. +41 62 398 02 58

United Kingdom / Eire

Mallatite Ltd
Sandfold Lane
GB-Manchester M19 3FT
Tel. +44-161 225 31 00
Fax. +44-161 257 26 25

For countries which are not listed here, please contact:

DuPont Polymer Powders SARL
25, Rue St Joseph
CH-1630 Bulle
Switzerland
Tel. +41-26 913 51 11
Fax. +41-26 912 79 89

This information corresponds to our current knowledge on the subject. It is offered solely to provide possible suggestions for your own experimentation. It is not intended, however, to substitute for any testing you may need to conduct to determine for yourself the suitability of our products for your particular purposes. This information may be subject to revision as new knowledge and experience become available. Since we cannot anticipate all variations in actual end-use conditions, DuPont makes no warranties and assumes no liability in connection with any use of this information. Nothing in this publication is to be considered as a license to operate under or a recommendation to infringe any patent right. **Caution:** Do not use in medical applications involving permanent implantation in the human body. For other medical applications, see "DuPont Medical Caution Statement", H-51459.



DuPont Powder Coatings