



Abcite®

Corrosion Protection



Property security fence in residential area resists burglars and climatic conditions

Contractor

Private property owner near Antwerp, Belgium.

Project:

A villa standing in a residential quarter of Antwerp, at the corner of Kastanjelaan and Della Faille Laan, had to be partially fenced in to protect it against potential burglars. Two security gates were to form part of the 80 meter-long and 180 centimeter-high fence and give access to the property. All elements had to fit with this posh part of town and at the same time be resistant to climatic changes and to vandalism.

Problem:

As fences are mainly made of steel, they are corrosion-prone from the very beginning. Even aluminium or galvanized steel cannot withstand deterioration indefinitely.

Moreover, corrosion attacks first where the supporting posts penetrate the soil. The changing weather conditions, with alternate rainfall, frost and heat, also bring their share of corrosion. In addition, property enclosing fences often arouse people's envy and lead to malicious damage.

Solution:

The owner decided to select a material that would guarantee long-term protection against corrosion and adverse weather conditions. At the same time it had to be esthetically pleasing as well as resistant to vandalism. They chose Abcite® from DuPont, a thermoplastic powder developed especially for corrosion protection and which is available in a wide variety of standard colors. Abcite® was applied by spraying the powder onto the clean, pre-heated steel elements.

Black color was chosen for this application.

Although no primer or adhesion promoter is required, adhesion to metals better than with most of the thermoplastic powder coatings commonly used today.

Benefits:

- Abcite® resists pollution.
- Abcite® is not damaged by plant growth. Abcite® is UV and corrosion resistant.
- Abcite® has high impact strength, even at low temperatures.
- Abcite® adheres well to intricate surfaces without an adhesion promoter and provides excellent edge coverage.
- Abcite® can be colored.

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

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 / Denmark

Korroterm
Box 42
S-590 62 Lingham
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

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DuPont Powder Coatings