



Abcite®

Corrosion Protection



Thermoplastic coating bonds to metal and protects bike rack against rust and rough treatment

Contractor:

External, rear-mounted vehicle rack, to transport two bicycles.

Problem:

All external vehicle parts and accessories exposed to harsh weather, road salts and stone damage. Rear-mounted bicycle racks hung out behind the vehicle are prone to physical stress from the vibration and exaggerated swinging movements caused by bumpy or twisting roads.

Racks have to be properly protected against corrosion, which means that any protective coating must be tough enough to resist damage from flying stone chips, rough handling from mounting and de-mounting bicycles, and the extremes of winter/summer temperature cycles.

Any corrosion that occurs at the highly stressed yield points will weaken the structure and accelerate any cracks. The resulting failure could not only

damage the vehicle, but cause a serious accident should a loaded rack fall on the road.

Solution :

In this case, the ideal solution was found by protecting the racks with DuPont Abcite® reversible cross-linked copolymer, applied as a thermoplastic powder to form a tough, attractive coating that evenly covers all parts before assembly. The Abcite® coating is so impact and abrasion resistant that the racks can be bolted together without risk of damage or exposure of the underlying metal.

In use the Abcite® coating is not only looks attractive, but protects the rack against weather, UV degradation, road salt, impacts and rough handling.

The project:

The parts were thoroughly cleaned and the coating applied by electrostatic spray and fluidised bed-dipping process.

Features & Benefits:

- Abcite® can be applied uniformly to different thicknesses and weights of metal.
- Environmentally responsible solvent-free application.
- Abcite® has an excellent resistance to road salt.
- Abcite® remains sufficiently flexible to resist stress and vibration fatigue.
- Abcite® is abrasion, scratch and impact resistant.
- Abcite® coats even edges, corners and other difficult areas.
- Abcite® has an excellent low-temperature flexibility and impact resistance.
- Abcite® coating is easy to repair in situ.

Examples of use:

- Tow bar accessories
- nudge bars
- lamp bars
- roof racks & ski holder fittings
- roof-mounted canoe & bicycle carriers.

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

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