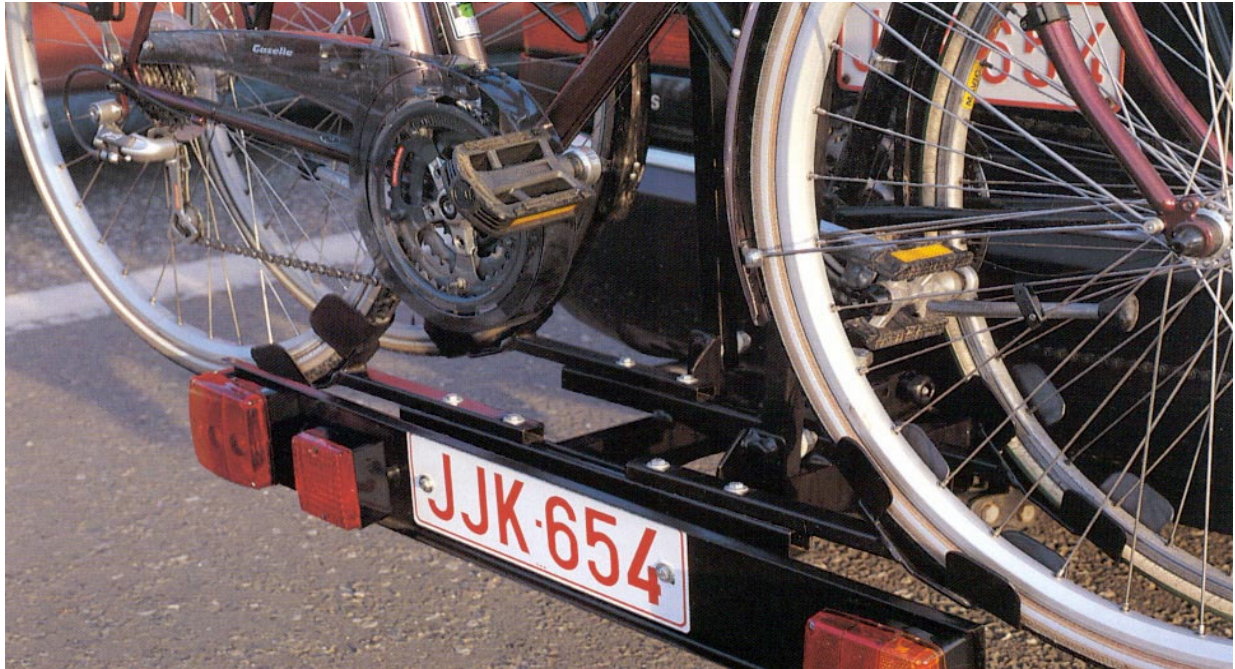




Abcite®

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

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DuPont Powder Coatings