



# Abcite®

Corrosion Protection



## Abcite® coated traffic light poles replace PVC to give more protection, longer life – and keep the traffic moving

### Contractor

Siemens Plessey Controls Ltd,  
Poole, UK.

### Problem:

Poles carrying traffic lights are usually coated with PVC. This does not protect them against corrosion from traffic pollution, road salt and dog fouling – or damage from minor collisions and vandalism. The poles have a very limited life due to UV degradation and stress cracking, are difficult to repair and need a lot of maintenance. Repainting poles covered in flaking paint or suffering from corrosion is a waste of time and money, because the corrosion continues. Replacing them can be costly – and also disrupts the traffic.

### Solution:

Abcite® from DuPont is a thermoplastic powder developed especially to provide long-term protection against corrosion, bring longer life and reduce maintenance and replacement costs. It is available in a wide variety of standard colours – so that the poles will look good, year in and year out.

### Project:

After appropriate pre-treatment – grit-blasting for black steel and chemicals for galvanised poles – the poles were heated in an oven, then dipped in a fluidised bed of Abcite®. The result was an attractive looking pole, with a tough impact-resistant surface ensuring many years of service without the need for regular maintenance.

### Features & Benefits:

- Poles coated with Abcite® have better resistance to corrosion and need less maintenance and are therefore more cost effective than other forms of treatment.
- Repairs after mechanical damage are easier to carry out in-situ.
- Coating the poles with solvent-free Abcite® is better for the environment.
- More attractive-looking poles enhance environmental quality too.

## Application case history

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**DuPont Powder Coatings**