



Abcite®

Corrosion Protection



Aluminium signposts well protected against thawing salt and dog fouling

Contractor

Nedal Aluminium,
Utrecht, Netherlands,

Project

Aluminium signposts normally offer mechanical strength and do not corrode easily. This is not the case for parts buried in the ground, or the exposed parts just above ground level. These are submitted to thawing salt and dog's urine. Therefore, all these parts need additional protection, obtainable by applying a corrosion-resistant coating.

Problem

Experience shows that aluminium posts can withstand adverse weather conditions, but that the buried parts, or those at ground level, are submitted to a wide range of

aggressive contaminants including underground corrosion and soil bacteria. Moreover, at ground level, they suffer from contamination by dog urine and thawing salt and are consequently prone to rust creep.

Solution:

To avoid contamination and corrosion of the lower part of the signposts, Nedal Aluminium decided to apply Abcite® from DuPont, a thermoplastic powder coating specially developed for corrosion protection. Abcite® was applied to the part to be buried in the soil and top about 20 cm of that above ground. The powder was heat melted onto the surface of the aluminium by applying the fluidized-bed coating process, thereby providing a non-porous finish.

Benefits:

- Abcite® is resistant to most contaminants, including thawing salt and dog fouling.
- Abcite® has a high resistance to abrasive media, even at low temperatures.
- Abcite® resists soil bacteria.
- Abcite® shows good weather resistance.
- The coating process is free of solvent emission.

Application case history

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DuPont Powder Coatings