

Corrosion-resistant folding containers for urban lighting





Overview

How can a 2D material protect against corrosion?

Intercalation, ion exchange, electrostatic adsorption, and other means can achieve a larger loading. The impermeable 2D material acts as a passive barrier and loads corrosion inhibitors together with other materials to achieve synergistic corrosion protection.

Which structure types of Micron-nano containers are used for corrosion prevention?

Spherical containers and BTA inhibitors (Fig. 1 b), lamellar containers and PDA inhibitors (Fig. 1 c), tubular containers and 8-HQ inhibitors (Fig. 1 d) are respectively used as examples to demonstrate the corrosion prevention mechanism of different structure types of micron-nano containers in coatings. Fig. 1.

How can azo be used for corrosion protection?

When Azo is used for corrosion protection, the “closed/open” state of the micron-nano container channel can be adjusted through reversible trans photoisomerization conversion to control the storage and release of corrosion inhibitors.

What is a 2D coating for a micron-nano container?

The impermeable 2D material acts as a passive barrier and loads corrosion inhibitors together with other materials to achieve synergistic corrosion protection. There is one thing worth noting, for lamellar micron-nano containers, thin and thick coatings can be applied to them just like tubular containers.



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