

Review of Corrosion-Resistant Folding Containers





Overview

Which container based coating has the best self-healing performance?

As far as the physical barrier effect of the composite coating is concerned, the lamellar micron- nano container is the best. Secondly, the introduction of micron-nano containers with different structures can endow the coating with self-healing performance, and the spherical container based coating has the best self-healing performance.

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.

Are stimuli-responsive micron-nano containers a self-healing anticorrosion coating?

The introduction of stimuli-responsive micron-nano containers endows traditional coatings with intelligent self-healing functions. Recently, the research on stimuli-responsive micron-nano containers has attracted much attention in the field of self-healing anticorrosion coatings.



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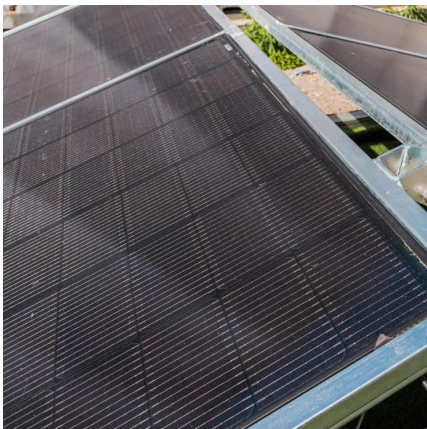


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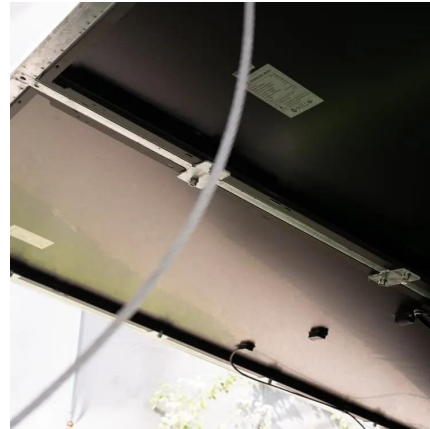
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