

◆ Impedance behavior analysis of degradation of epoxy resin coating using ICM sensor

Purpose

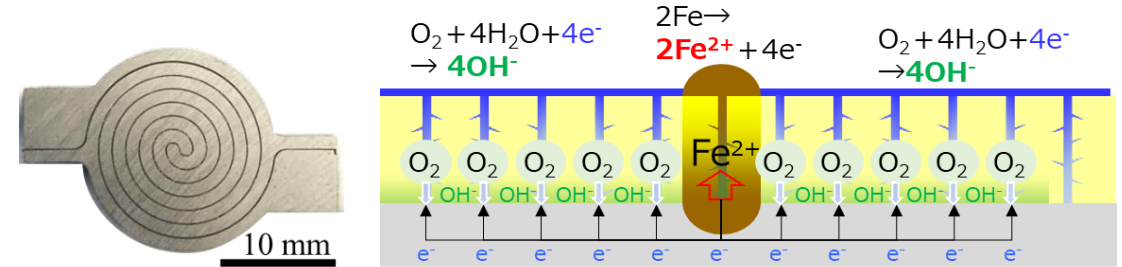
- Quantification of the degradation of organic coatings.

Summary

- Impedance monitoring by ICM sensor could show the mechanism of coating degradation and its potential to be useful for quantification.

Convenience of this technology

- Replaced by periodic diagnosis.
- Quickly determine the application of new coatings.
- The remaining life after recoating can be predicted.



ICM sensor

Estimated mechanism of interface corrosion

- High-humidity retention test : 5g/m²NaCl, RH90%

Thickness of film	Result	Appearance(After 168h)
60μm		
120μm		

It is possible to quantitatively measure the state of under-film corrosion in real time.