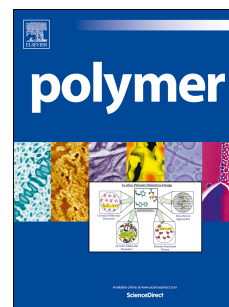


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Furan-functionalized aniline trimer based self-healing polymers exhibiting high efficiency of anticorrosion

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Highlights

1. Tetrafunctional furan-capped aniline trimer (TFAT) is a new building block for self-healing polymers.
2. TFAT shows high anticorrosion efficiency based on its electroactivity and good adhesion strength.
3. Maleimide-based chemicals and TFAT could result in self-healing anticorrosion coatings.
4. An almost complete recovery of anticorrosion protection efficiency is reached.

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