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• A new debonding on demand solution for bonded composite structures materials

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Abstract content

Nowadays, there is an Increasing demand for material recyclability to face recycling issues. This is especially the case for composites materials and structures which are definitely difficult to recycle. As a consequence, there is a clear need for a more forward-thinking approach that addresses a new generation of composite materials designed with repair, reuse and recycling (not downcycling) in mind. This calls especially for developing new debonding solutions for bonded composite structures materials. However, it is more than challenging to incorporate debonding-on demand features into an adhesive system [1]. In this frame, the main objective of this paper is to introduce a new debonding-on demand technology based on an innovative concept in order to disassemble bonded composite structures.

References

Banea et al, Rev. adhesion Adhesives, 17(1) 2019, DOI:10.7569/RAA.2019.097304,