

ENGLISH



Ministerie van Economische Zaken
en Klimaat

Provincie Noord-Brabant



GREENER: Biobased and biodegradable replacement for polyacrylic acid.

Based on the demand for sustainable alternatives, GREENER is developing a biobased and biodegradable replacement for polyacrylic acid in the border region with applications in coatings, paper, cosmetics, biomedical materials and superabsorbent materials for concrete. By consequence, less microplastics end up in the environment, and only non-toxic, natural substances are released upon degradation.

Microplastics are ubiquitous and pose a growing environmental problem. Everyone has heard of the "plastic soup" in the oceans, where plastic waste breaks down into small particles that end up in our food chain because plankton and marine animals consume microplastics.

Only a small part of the synthetic plastics is recovered or recycled after use. The majority is incinerated, ends up in landfill sites or accumulates in the oceans, contributing to microplastic pollution. Based on the demand for sustainable alternatives, the GREENER project will develop biobased and biodegradable polymers with the same properties as the widespread water-soluble polyacrylic acid. As a result, fewer microplastics end up in the environment, and only non-toxic, natural substances are released during degradation. The aim is to valorize these materials in the widest possible range of applications, from superabsorbents in concrete, biomedical materials, cosmetics and paper to coatings.

Interreg V, theme environment

On a total budget of € 1,547,000, Interreg contributes € 773,500.01 (50%)

Project period: 1/9/2019 - 31/8/2022

Project manager: Maastricht University

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Project partners



<https://www.maastrichtuniversity.nl/research/aachen-maastricht-institute-biobased-materials>



<http://www.pbm.ugent.be/>



<https://www.kuleuven.be/wieiswie/nl/person/00034791>



<http://tenco-online.com/>



<http://www.govi.com/>



<https://www.millvision.eu/>