



Plast í burðarlög. Nicolas Marino Proietti. ReSource – október 2022.

Ágrip skýrsluhöfundar:

Due to lack of resources, it was not possible to fulfil within this project a laboratory testing campaign to test the use of plastic waste in the base layer of road construction. Instead, it was proposed to work on a literature review and describe the necessary steps to further investigate the potential of such application.

The purpose of the study is to describe how plastic waste can be used in base course asphalt. Initially the research aimed at answering the following questions:

- What are the environmental impacts of using plastics in the base course?
- How can plastic waste be mixed into the base layer asphalt?
- What type of plastics are the most desirable to reinforce the asphalt in the base course?

The expected result is that the analysis supports knowledge regarding the use of plastic waste in structural layer asphalt. If successful, the research may result in increased plastic recycling in Iceland and support the development of the circular economy concept applied to road construction.