

MR8 MacRebur Project 2022

Project: Construction of new road
Location: Kadaka Road, Leetse, Paldiski, Estonia
Client: West Harju Municipal Government
Surfacing Contractor: Tariston AS
Asphalt Supplier: Tariston AS
Product used: MR8
Date: June-August 2022



OVERVIEW



This project recycled 34,000kg of plastic

That's a CO2e saving of 52,700kg

THE PROJECT

In 2022 Plastic Road OÜ received contact from the West Harju Municipal Government to discuss using MacRebur products in a section of road near Paldiski City. Due to the increased road usage, and new building developments, there was a demand from West Harju Municipal Government for a new asphalt road surface and they were exploring a more environmentally solution for the 6.6km project.

As part of the overall project, all existing asphalt was removed and a new base and surface courses were constructed. The project was carried out in two phases, the 1st phase began in June 2022 and the 2nd phase began in August 2022. Tariston AS produced and laid 13,181 tonnes of asphalt of which also contained 10% RAP in the base layer. The new base course was produced with 8% of MacRebur MR8 and the surface course with 4% of MacRebur MR8, both replacing a percentage of the binder weight.

MR8 is manufactured from a sustainable polymer and is designed to extend the binder in any asphalt mixture. MR8 is used as a direct replacement of neat binder used in asphalt.



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THE OUTCOME

The re-surfacing of this stretch of road resulted in 34,000 kg of polymer being recycled, resulting in a CO2 saving of 52,700kg. The construction process was no different to that of conventional asphalt, and the project saw huge environmental benefits in terms of polymer being recycled and CO2 saved. The road will be monitored for performance throughout the next year.

Plastic Road OÜ – MacRebur Baltics

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