

N344, Barneveld

Sustainable renovation of cycle paths with White Topping and TwistR fibres

PROJECT

In 2019, Schagen Infra renovated the cycle paths along the N344 between Voorthuizen and Garderen on behalf of the municipality of Barneveld, using a sustainable White Topping solution. The existing asphalt structure was reused and fitted with a 12 cm thick concrete pavement reinforced with TwistR fibres. This saved raw materials, reduced CO₂ emissions and delivered a durable, low-maintenance pavement with a service life of more than 20 years.

IMPORTANT BENEFITS

- ✓ Sustainable reuse of the existing asphalt structure
- ✓ Less raw material use thanks to a thinner concrete structure
- ✓ Increased crack resistance thanks to the TwistR fibres
- ✓ Longer service life and lower maintenance costs
- ✓ Suitable for roundabouts, intersections and heavily loaded roads

SUSTAINABLE CONSTRUCTION

Thanks to the use of TwistR fibre reinforcement, the required concrete thickness could be significantly reduced, resulting in savings on concrete consumption, transport movements and CO₂ emissions, without compromising the durability and service life of the pavement.

PROJECT IN FIGURES

Client	Gemeente Barneveld
Contractor	Schagen Infra
Location	N344
Year	2019
Project type	Cycle path

TwistR Hybrid fibres	7,000 kg
Application	TwistR®

■ RESULT

A durable, low-maintenance cycle path pavement with a service life of more than 20 years, achieved by reusing the existing asphalt structure. The innovative White Topping solution with TwistR HYBRID fibres resulted in savings of approximately 2,500 tonnes of asphalt for removal, 1,900 tonnes of new concrete and around 25% on project costs, while at the same time reducing CO₂ emissions and improving cycling comfort.

WOULD YOU LIKE MORE INFORMATION? PLEASE GET IN TOUCH

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