

Soil stabilization technology

Recycling of railroad ballast for the construction of a container transshipment center for LEONHARD WEISS

Jobsite report



Characteristics of this project

- > The highly contaminated railroad ballast should be replaced
- > The disposal would be very expensive
- > The planned soil replacement would cause lots of transports and hugh expenses for new material as well as a high environmental impacts

Factors of success for NovoCrete®

NovoCrete°

> Immobilisation of the pollution in the existing railroad ballast material

- >> Secure, durable and environmentally friendly
- >> Savings of costs for disposal and space in the waste disposal sites
- > Solidification of the existing railroad ballast and the initial soil material for the later use as a base layer

>> Savings of costs for transportation and material as well as a decrease of environmental impacts

> Reducing of the strength of the asphalt layer

>> Time and money savings

Stone crushing and breaking of the initial material to a grain size distribution in the range of O to 50 mm



By stone crushing and breaking of the initial material a homogenisation can be achieved



The homogeneous initial material can later be milled easily and secure

NovoCrete°



Loading of the spreader unit with the delivered cement-NovoCrete mixture



Spreading of the exactly defined amount of cement-NovoCrete mixture per square meter (m²)



Milling of the cement-NovoCrete mixture by adding water



Milling of the cement-NovoCrete mixture by adding water



Levelling and compaction of the fine level is executed parallel and in several work steps



Leveling of the fine level by using a laser guided grader



Static and dynamic compaction of the fine level by using a steel drum roller for achieving the required degree of compaction



Fine level after compaction with subsequent irrigation (protection against evaporation)



Construction of a container transshipment center

Finished fine level after two days - ready for the installation of the asphalt layer



Installation of the new asphalt layer (strength 8 cm)



NovoCrete Construction of a container transshipment center

Installation of the asphalt layer by using a finisher



Utilisation of the finished area





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