

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 (m<sup>2</sup>)



### Milling of the cement-NovoCrete mixture by adding water



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# 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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www.novocrete.com



moormann@autark-energy.com



