

## Creation of a hydraulically solidified base layer in the course of the rehabilitation of the state road (M5) by using the Mix-Paver-technology

Jobsite report

Roads

**Location**

Boljevac/Straza, Serbia

**Execution**

May/June 2012

**Strength of the layer**

18 cm



## **Characteristics of this project**

- › Disposal of asphalt material would have been required
- › High traffic on the road
- › No deviation possible

## Factors of success for NovoCrete®

- > Saving of time compared with conventional construction
  - >> *Secure, durable and environmentally friendly*
- > Converting of old asphalt material in the new 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*

**Initial situation after milling of the old asphalt layer**



**Loading of the Slurry-machine with cement**



**Loading of the Slurry-machine with NovoCrete®**



**Milling of the cement-NovoCrete-mixture together with old asphalt and imported gravel material by using the Mix Paver**



**Milling of the cement-NovoCrete-mixture together with old asphalt and imported gravel material by using the Mix Paver**





**Utilisation of the Mix-Paver (including precompaction of the mixed material)**



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**Utilisation of the Mix-Paver for the installation of the new base layer (strength 18 cm)**



**Close-up of the installed layer (strength 18 cm) after the utilisation of the Mix-Paver**



**Close-up of the surface after the utilisation of the Mix-Paver**



**Dynamic compaction of the fine level by using a steel drum roller for achieving the required degree of compaction**



**Dynamic compaction of the fine level by using a steel drum roller for achieving the required degree of compaction**



**Finished fine level after the compaction**





**Quality control - sand cone test on the NovoCrete® base layer**



**Irrigation of the fine level (protection against evaporation)**



**Installation of the new asphalt layer after 48 hours**



**Finished road with the new asphalt layer**



# NovoCrete®

Soil stabilization technology

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