NovoCrete®

Soil stabilization technology

Creation of a hydraulically bound base layer in the course of a partly rehabilitation of the highway E75/A1

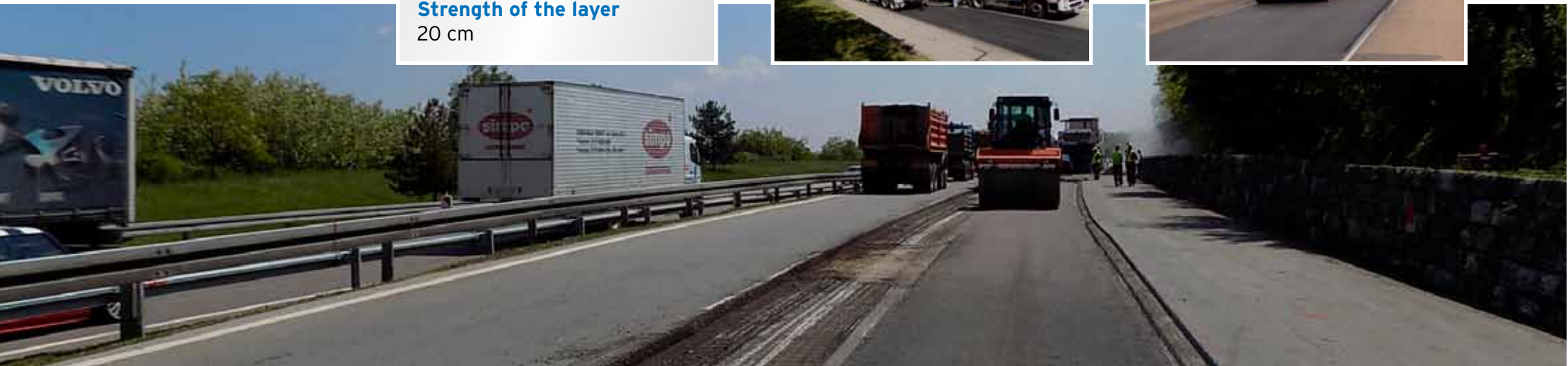
Jobsite report

Roads

Location
Belgrade - Nis, Serbia

Execution
May/June 2015

Strength of the layer
20 cm



Characteristics of this project

- High congestion caused by hugh traffic (transit highway to south-east Europe)
- Asphalt layers have been damaged by lane grooves and side escapes - extensive rehabilitation was permanently required
- Only a short time slot for the rehabilitation process available

Factors of success for NovoCrete®

- Significant faster execution of construction work compared to conventional technology

  » Secure, durable and environmentally friendly

- Converting of old asphalt and gravel material in the new base layer

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

- The rehabilitation could be finalized on schedule

  » Time and money savings

Partly rehabilitation of a highway

Situation after milling of the old asphalt layer

Loading of the Slurry-machine with NovoCrete®

Partly rehabilitation of a highway

Loading of the Slurry-machine with cement

Partly rehabilitation of a highway

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

Partly rehabilitation of a highway

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

Partly rehabilitation of a highway

Milling of the cement/NovoCrete mixture together with old asphalt and gravel material by using the Mix Paver (strength of new base layer 0,20 m)

Partly rehabilitation of a highway

Milling of the cement/NovoCrete mixture together with old asphalt and gravel material by using the Mix Paver (strength of new base layer 0,20 m)

Partly rehabilitation of a highway

Quality control - taking of mixed material samples for later laboratory analysis

Partly rehabilitation of a highway

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

Partly rehabilitation of a highway

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

Partly rehabilitation of a highway

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

Partly rehabilitation of a highway

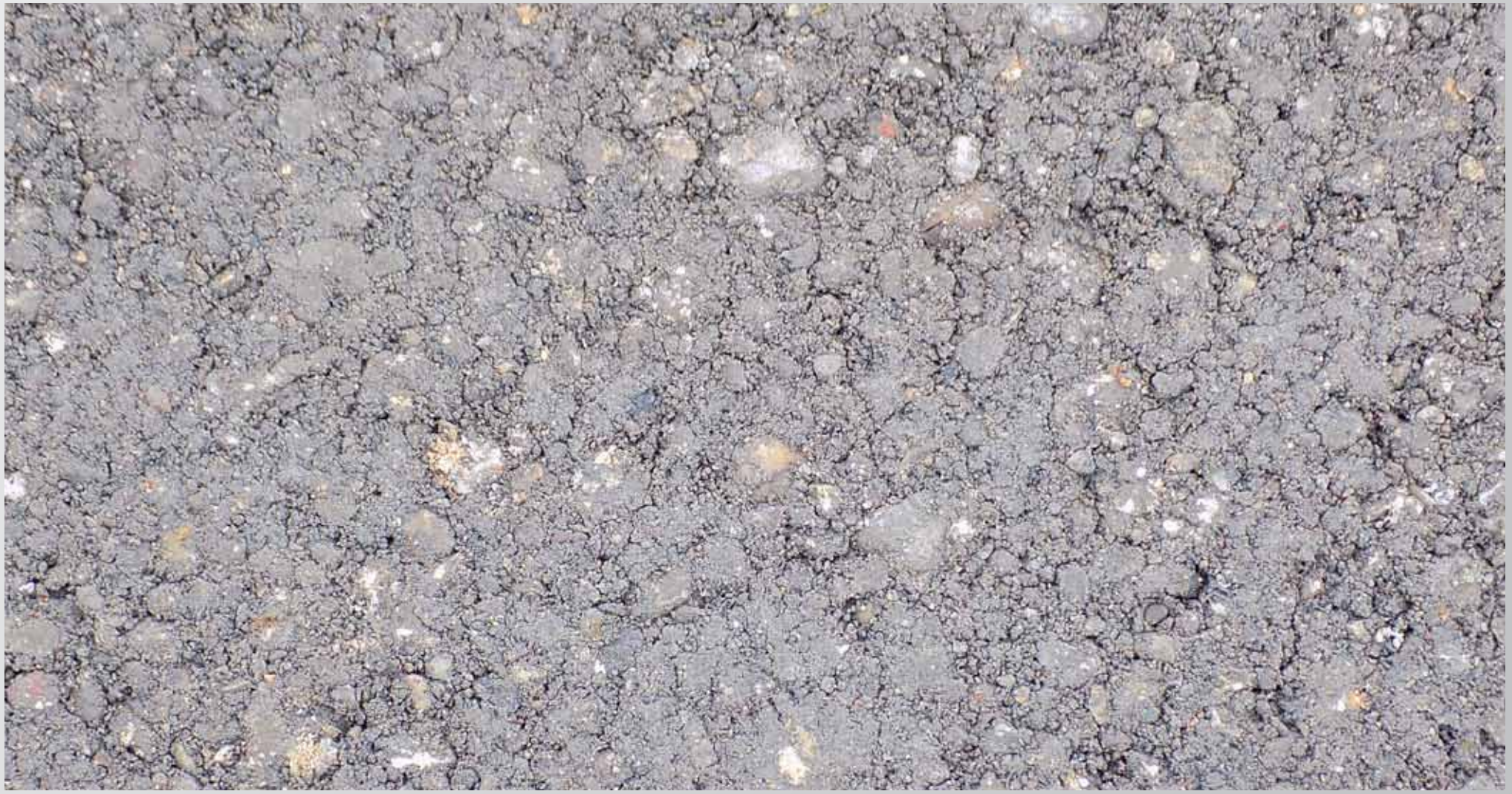
Area after the compaction

Partly rehabilitation of a highway

Area after the compaction

Partly rehabilitation of a highway

Close-up of the area after the compaction



Partly rehabilitation of a highway

Finished fine level (one lane)

Partly rehabilitation of a highway

Finished fine level after one day

Partly rehabilitation of a highway

After the compaction process the layer was covered by textile (protection against evaporation)

Partly rehabilitation of a highway

Three days after the stabilization process the NovoCrete® base layer was covered by using a bitumen emulsion

Installation of the new asphalt layer

Partly rehabilitation of a highway

Installation of the new asphalt layer

Partly rehabilitation of a highway

Installation of the new asphalt layer with subsequent compaction

Partly rehabilitation of a highway

Compaction of the new asphalt layer

Partly rehabilitation of a highway

Compaction of the new asphalt layer

Partly rehabilitation of a highway

Finished lane

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and harbours on our website www.novocrete.com

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