

## **Procedure steps for soil solidification by using NovoCrete®**



## Procedure steps

### Milling of the old asphalt

- Milling of the old asphalt layers
- Up to 10 cm of the old asphalt material can be mixed together with the cement-  
NovoCrete-mixture

### Special Grubber in action

- Cracking of the old layer material
- Big stones were brought to the surface

### Stone crusher in action

- Milling of the mixed layer material with  
the stone crusher to a grain size < 50 mm

Asphalt milling machine



Spezial-Grubber



Stone crusher



## Procedure steps

### Preparation of surfaces

- Secure trafficability for construction equipment
- Reduce water content of soil, if required
- Exchange soil, if required.
- Pre-leveling/pre-compaction of rough grade level
- Obstruction-free trafficability of the area
- Marking/pegging of stabilization area
- Safeguarding of subterranean service pipes

### Spreading of cement

- Qualification test for specification of cement/additive mixture
- Production of cement
- Preparation and use of suitable spreading vehicle
- Construction site logistics for on-schedule delivery of spreading vehicle
- Supervision of spreading procedure

### Mixing of cement

- Mixing of cement/additive mixture in required strength using soil stabilizer in the soil
- In the case of milling depths required > 50 cm, the soil is dug away, stored intermediary, mixed with cement and reused.

Surface preparation



Spreading procedure



Mixing procedure



## Procedure steps

### Watering the surface

- Irrigating the base layer (evaporation protection) using an irrigation unit
- Continual adding of water without interrupting the milling work
- Filling procedure using vacuum tanker

### Levelling of the surface

- On-site creation of precise grade level
- Post-profiling with grader (laser controlled) if necessary

### Compression of the surface

- Dynamic and/or static compression on average 100% DPR using suitable equipment
- Compression of precise grade level using smooth drum roller on average 100% DPR using suitable equipment

Irrigation



Levelling



Compression



## Procedure steps

### Quality assurance

- Geotechnical support using static plate tests according to DIN 18134 and using dynamic plate tests as well as falling weight equipment
- Removal of drilling cores
- Compression strength tests, etc.

Static plate test



Dynamic plate test



Drilling Cores



## **Contact**

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