



Ville Niutanen

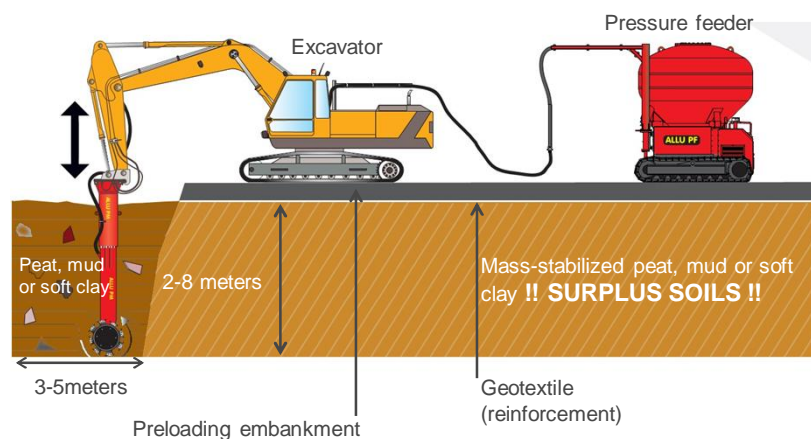
Mass stabilisation as a technology to convert soft surplus soils into construction material



Lemminkäinen



Mass stabilisation, principle and equipments





Typical setup



EXCAVATOR
from 30 tn to 40 tons,
modified - extra
hydraulics etc.

MIXING HEAD

From 3 ... 8 meters

PRESSURE FEEDER

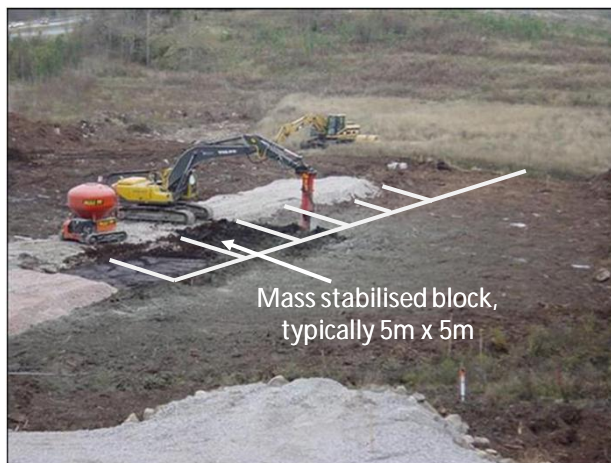
Single tank 7 m³, double tanks 10 + 10 m³



Projects, railroads ...



Piling platforms
Embankment stabilisation
Maintenance roads



Mass stabilised block,
typically 5m x 5m



Roads, municipal pipelines ...



Piling platforms for motorways
Embankment stabilisation
Secondary roads
Residential area roads
Sheet pile assistance



Electrical and gas pipelines,
etc...

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Fields, parking areas ...



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Housing, industrial areas ...



Before



After

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Dredging, ports ...



Vuosaari, Helsinki
Kokkola Port
Pansio, Turku Port
Jätkäsaari, Helsinki
UPM, Rauma
Lutakko, Jyväskylä

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Surplus soil stabilisation – new machines and methods



9 Ville Niutaniemi © LEMMINKÄINEN

Surplus soil stabilisation - Binder management



10 Ville Niutaniemi © LEMMINKÄINEN

Lemminkäinen

Ville Niutanen

Lemminkäinen Infra Oy
GSM +358 40 511 1893
Ville.Niutanen@lemminkainen.com
www.lemminkainen.fi