



SITE REPORT

CONSTRUCTED: APRIL 2008
PROJECT: ZGONC WERKZEUGMARKT, A-9020 KLAGENFURT
GEOTECHNICS: 3P GEOTECHNIK ZT GMBH.

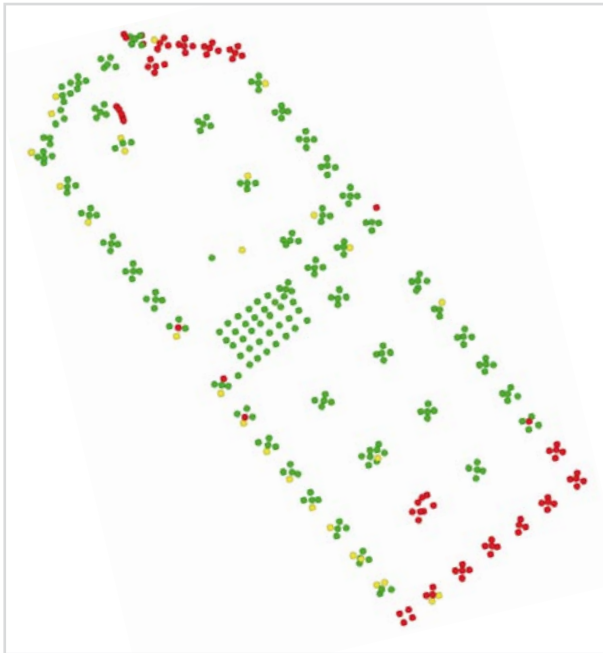


TERRA-MIX

Job definition:

On the northern side of Klagenfurt a new ZGONC warehouse marked for tools was to be erected.

The soil investigation found weathered subsoil up to a depth of 10m consisting of **loose, gray-brown sandy gravel**. In order to avoid damages to the buildings (cracks!) on account of differential settlements between the supporting columns and between the columns and the base slab respectively it was necessary to improve the bearing capacity of the gravel layer.



Solution:

For economic reasons and technical equivalence it was decided to use the low resource system of rapid impact compaction of the firm **TERRA-MIX**.

After the construction of a calibration area the exact pattern and number of compaction passes was established in conjunction with the geotechnical engineer of the project (**3P Geotechnik**).



Vibrations:

Special attention was given to the impact compaction work. Particular observance required a multi-storey office building bordering the construction site to the west and the local water main running along the east side.

Result:

By using the impact compaction the existing gravel was successfully compacted and thus an equalisation of the soil parameters and a forestalling of settlements could be achieved.

The existing structures were not damaged and by continuously measuring and recording the vibrating velocity it could be proven that the allowable limits were not exceeded.



WE COMPACT SOILS

TERRA-MIX Bodenstabilisierungs GmbH
Schönaich 96, A-8521 Wettmannstätten
www.terra-mix.com

Tel.: +43 (0) 3185 / 307 22
Fax: +43 (0) 3185 / 307 22-30
E-Mail: mail@terra-mix.com

