

TERRA-MIXTM

_STRAIGHT AHEAD

Hybrid foundation »System TERRA-MIX«TM

**_Building site
report**

_Realized: June 2010

_Building Project: new building of a production hall

_Awarding Authority: Natus GmbH & Co.KG; D-54292 Trier

_Area: 4900 m²



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Assignment:

For the new construction of a production hall an economic way of compacting the in-situ ground and in particular the 2.5m deep fill was being looked for.

Solution:

The Hybrid-foundation „System TERRA-MIX“ was selected.

1st step:

Impulse Compaction in several work steps beneath the baseplate and the individual foundations, as well as re-filling of the settling cones with compactable fill material.

2nd step:

Creating a substitute base layer „System TERRA-MIX“ with a layer strength of 40cm by means of milling a suitably with the ground harmonized binding agent into the ground. This substitute layer serves as a load compensating layer above the compaction columns. $E_{vd} > 60 \text{ MN/m}^2$.



Results:

By using the Hybrid-foundation „System TERRA-MIX“ the use of resources could be minimized, the construction time be shortened and a foundation version of very high quality could be established.

