



THE CONSOLID SYSTEM for Soil Stabilisation, shown on examples:

2000, Railroad Formation, **HUNGARY**
22km = 56,072 m², treated 200mm deep.

On this 22km long stretch of a rebuilt railroad embankment, 300,000 kg SOLIDRY and 11,000 litres CONSOLID were needed to treat the 56,072 m² embankment of clayey / silty soil 300mm deep to significantly improve the water stability of this soil.



THE CONSOLID SYSTEM can upgrade the worn formation, which is loaded with "lost" ballast, to excellent formation material and avoid in this way that this material has to be disposed of as "polluted waste" at high costs. Such a treatment can be carried out "in place" as in our example, but also "in plant", there where such excavated material is collected. There the soil mix can be adjusted, if necessary, with missing fractions to obtain exactly the loading capacity which is required.



The construction of the formation was carried out from June 14th to July 2nd, 2000 (a period of 18 days).



The picture shows very clearly the kind of soil used for the treatment - material which is usually very sensitive to the softening effect of moisture and therefore also to frost damages. The CONSOLID SYSTEM has reduced the influence of water substantially and this can be extended to completely impervious soil.

The fast construction of these 22 kms of formation with THE CONSOLID SYSTEM was possible only due to the use of modern, professional equipment, as shown on the photos below. CONSOLID solution was sprayed from the tank car right into the chamber of the COMAG soil mixer, SOLIDRY was spread with a distributor trailer and after thoroughly mixing in, properly compacted, before new ballast could be placed on top. This allowed carrying out the whole treatment within this short time span.



THE CONSOLID SYSTEM is the fastest, safest and cheapest way to upgrade any railroad embankment to a stable basis with a substantial increase in the MPa-values of 5 to 10 times, improving further under traffic and over time. The treatment keeps the water out of the formation and this protects it against frost heaves and deformation. Deflection will be no problem anymore.

The new formation using the CONSOLID SYSTEM will be a stable, safe basis for the new ballast and the track for long time.

