

What is soil stabilisation?

Soil Stabilisation as a process has been around since World War 1. More basic than today the historical use of soil stabilisation has, in principle, remained the same. Binding powders have been spread onto existing material, mixed in using a rotovator and compacted appropriately.

Soil stabilisation has since seen much progress, including increased sophistication in equipment, laboratory tests to determine binder addition rates and onsite compliance testing to establish that the required performances parameters have been met. Soil stabilisation has also developed to a level recognised by industry standards.

Combined Soil Stabilisation's team have unrivalled experience within the industry and have successfully carried out the technique on some of the country's largest construction projects.



The A E Yates Group

Combined Soil Stabilisation is part of a group that has been strategically developed to offer a complete service for all customers ground engineering needs. Other companies in the group are;

A E Yates Limited - civil engineering contractor operating predominantly in the North West

A E Yates Trenchless Solutions - microtunnelling, auger boring, pipe jacking, pipe bursting, horizontal directional drilling and shaft sinking

SPI Appleton Limited - steel piling contractor

Tritech Piling & Foundations Limited - foundation piling contractor

APB Construction (UK) Limited – rail sector Principal Contractor Licence carrier providing steel fabrication, repairs, preparation and coating, bridge and abutment repairs

The group companies add value not just in their specialism but also, when working together, through resource sharing and the elimination of interfaces with the potential co-ordination, management and programming issues involved.

For further information

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We would be delighted to discuss your potential project requirements.



Combined Soil Stabilisation website



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Established 1870

Who we are

Combined Soil Stabilisation Limited is the United Kingdom's leading specialist subcontractor in the soil stabilisation industry. We offer a range of services which includes Soil Stabilisation, Bulk Earthworks and Plant Hire using our extensive modern fleet.

Utilising state of the art equipment, including sophisticated Wirtgen mixers, we carry out soil stabilisation works throughout the United Kingdom to varying soil types. Tailored packages are provided including initial mix design and onsite compliance testing by an independent UKAS accredited laboratory.

Combined Soil Stabilisation has been a member of the A E Yates Group since 2011. The group has been carefully assembled to offer a complete service for all customer ground engineering needs. A E Yates Limited heads the group and has traded continuously since it was formed in 1870 as a general civil engineering contracting business and remains family owned to this day. The stability and strength of the group, combined with a diversified offering across the construction sector, reinforces confidence in project delivery for our customers.

How we do it

We have the specialist skills, technical knowledge and practical experience to deliver environmentally sustainable solutions to suit all customer budgets using our extensive range of plant and equipment. Services include modified bulk fill, capping and sub-base replacements, road foundations in accordance with IAN73/06 (a single stabilised layer which can utilise site won materials and replace the traditional capping and subbase layer), building footprint sub-base replacement, alternative options for foundations for low level buildings and warehouses and moisture reduction to treat unacceptable materials to render them acceptable.

A further service is the provision of engineered piling and craneage platforms to allow safe installation of foundation piles or lifted loads. This mitigates the requirement to import material and, when using A E Yates Group member Trittech Piling & Foundations, also eliminates an onsite interface.

Customer Focus

Operating to the strict guidelines imposed by the Britpave Code of Practice we work for a diverse range of customers throughout the United Kingdom and Eire. Customers include small and medium sized earthworks contractors through to multi-national conglomerates in a range of sectors. We are flexible in commercial arrangements and undertake projects through a variety of contract suites, frameworks and partnerships. Our work scope ranges from small estate roads to major highway schemes and huge distribution building footprints.

Generally we are initially approached for our specialist skills, knowledge, experience, financial stability and the services we offer. We then seek to develop long term relationships by working with customers, preferably from the feasibility stage. This customer focused approach is used regardless of the stage of our relationship with customers in the trust that the relationship will develop further. We know from experience that early involvement is key to determining best value and the most cost effective solution. Openness, honesty and trust play their part in any relationship and this is one of the main reasons that we have achieved a high level of repeat business.



What we do

We develop sustainable solutions for projects from £20,000 to £10,000,000 based on the following range of techniques to suit any customer requirement or need;

- Modification/Improvement - the reduction of high moisture content of unacceptable materials to render them acceptable to enable the excavation, placing and compaction of general fill to be carried out in an efficient and economical manner
- Stabilising - the mixing of lime, binders and water with the host material to give a lightly cemented product with long term strength and durability
- Enhanced Stabilising - a development of stabilising giving a higher quality material with better performance
- Bulk Earthworks – offered in addition to stabilisation to provide customers with a complete package tailored to suit individual requirements
- Plant Hire – our plant and equipment is frequently in demand from other contractors in the sector who do not have our financial strength or breadth of capability in project size

Our experience allows us to offer unbiased professional advice on equipment selection, project planning and solution design. This service means that we can provide the most cost effective solution for customers. We can work on a single point of delivery principle and therefore also undertake the bulk earthworks element that may be intrinsically linked with the soil stabilisation process. This provides a true "one stop shop" service to customers.

Our Credentials



ISO 9001 6532



ISO 18001 6532



ISO 14001 6532



The Customer Benefits

We offer customers added value in a team environment working from the earliest stages of a project contributing to;

- Proactive teamworking approach
- Risk Assessment and Management
- Value Engineering
- Innovation
- Appropriate methods and techniques
- Sustainability
- Best Value and Practice
- Health & Safety
- Productivity
- Time Predictability