Where it is necessary to provide reinforcement and strengthening of low-bearing soil for the purpose of direct foundation of buildings and constructions, soil-cement columns are installed using the Deep Soil Mixing (DSM) technology.

As the mixing shaft is advanced into the ground until it reaches load-bearing soil, grout is injected into the soil. As a result of the repeated mixing cycle a soil-cement column is formed having the required properties. The DSM technology is also applied to install temporary walls for excavation support in weak soils. In such cases the soil-cement columns require reinforcement – usually steel I-sections – which are installed in the DSM walls.