

Liquid Excavated Earth and Sand Improving Solidifier

T G R o c k - L

Muddy soil generated in large volumes from civil engineering sites and in particular from shielding work, construction of foundations, and excavation, etc. has high water content and is fluid. For this reason, handling upon transport of such soil and sand is difficult. TG Rock-L has been made in consideration of such as well as other aspects that lower work efficiency and harm the environment due to the use of inorganic products used on site as conventional solidifiers. TG Rock-L is a liquid macromolecular solidifier that enables soil improvement in a short amount of time with an addition of a small amount. As TG Rock-L does not have an effect on the pH level of the soil/sand after improvement, it is capable of being used for environmentally recycled mud and soil solidifying treatment.

Also, as TG Rock-L is a liquid product, it can be subject to quantitative addition by using a liquid material adding device.

Features of TG Rock-L

High safety

As TG Rock-L does not have an effect on the pH level of the soil/sand after improvement, there is no worry of causing pollution.

Improvement of workability

Due to being a liquid product, unlike powder products there is no dust generated which is advantageous for the work environment. In addition, work can be simplified by mechanical control using a liquid material adding device.

Capable of reforming soil in a short amount of time

As TG Rock-L requires less time to reform soil than inorganic solidifiers, this eliminates the need for temporary storage space to realize use as an urban civil engineering solidifier that enables direct transport to disposal sites.

Capable of reforming soil with an addition of a small amount

As TG Rock-L is capable of reforming soil with an addition of a small amount, there are no worries of various problems seen with conventional inorganic solidifiers such as generation of dust, requirement of product silos, and increase of mass.

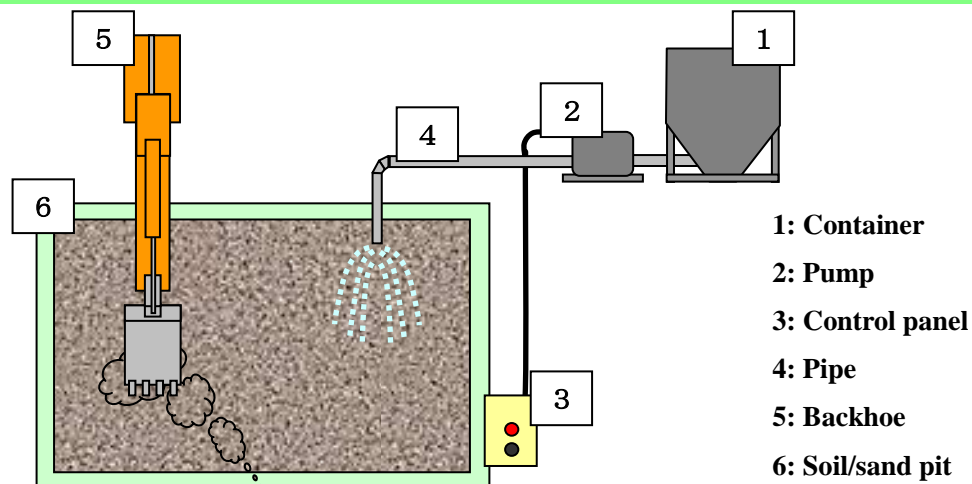
Stability after reformation

As mud and soil that is reformed with TG Rock-L is in the form of firm crumbs due to the adhesive performance which is an effect of the product, there is no worry of the soil turning back into mud due to the effects of such as rain water and vibrations during transport.

Drying property of soil/sand after reformation

As the surface area of mud and soil that is reformed with TG Rock-L increases, the soil becomes quicker to dry compared to the mud/soil before reformation.

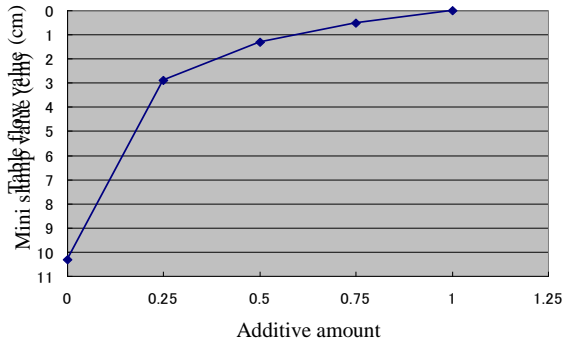
Schematic Diagram of Liquid Material Adding Device



Usage Instructions of TG Rock-L

Add TG Rock-L to the mud or soil and then mix and stir. Be sure to thoroughly stir as the reforming effect will be lowered when stirring is insufficient. Although performance will vary depending on the water content or quality, etc. of the mud or soil, by using a mixing and stirring facility, it will be possible to reform the mud or soil in approximately 30 seconds.

Mini slump test



Before adding TG Rock-L

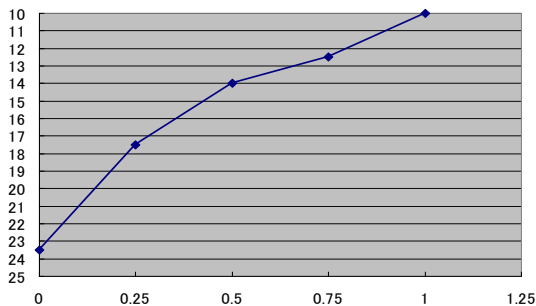
Slump value: 10.3 cm



After adding TG Rock-L 1.0 kg/m³

Slump value: 0 cm

Table flow test



Before adding TG Rock-L

Table flow value

23.5 cm x 23.0 cm

After adding TG Rock-L 1.0 kg/m³

Table flow value

10.0 cm x 10.5 cm

Property Specifications of TG Rock-L

Appearance: Pale yellow liquid

pH: 7.0 – 9.0

Specific gravity: 1.0 – 1.1

Packaging: 18 kg can, 1 m³ container, tank lorry delivery

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