Excavated Earth and Sand Improving Solidifier

TG Rock

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 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 is a neutral macromolecular solidifier that enables soil improvement in a short amount of time with an addition of a small amount. As the pH level of the product is also prepared to be in the neutral range, it is capable of being used for environmentally recycled mud and soil solidifying treatment.

Features

High safety
As TG Rock has no toxicity and is a neutral product, there is no worry of pollution occurring after reformation.

Capable of reforming soil in a short amount of time
As TG Rock 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 is capable of reforming soil with and 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 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 increases, the soil becomes quicker to dry compared to the mud/soil before reformation.

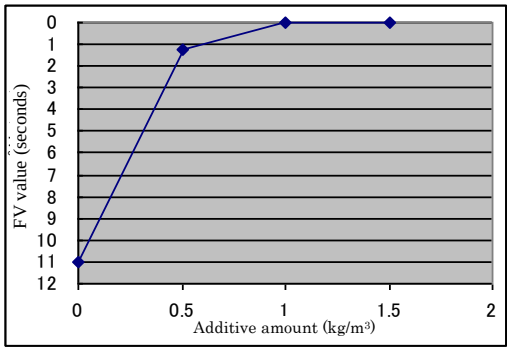
Property Specifications of TG Rock

Appearance	**Grayish white powder**
pH	**8.0 – 9.0 (0.2% solution)**
Bulk specific gravity	**0.6 – 0.9**
Packaging	**20 kg bag / 1 t flexible container / 10 t tank lorry**

Usage Instructions of TG Rock

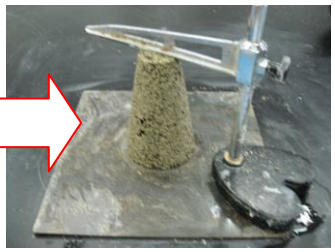
Add TG Rock to the mud or soil and then mix and stir. Be sure to thoroughly stir as the reforming effect will be lowered when stirring is insufficient. Although performance will vary depending on the water content or quality, etc. of the mud or soil, by using a mixing and stirring facility, it will be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

<Mini Slump Test>



Before adding TG Rock

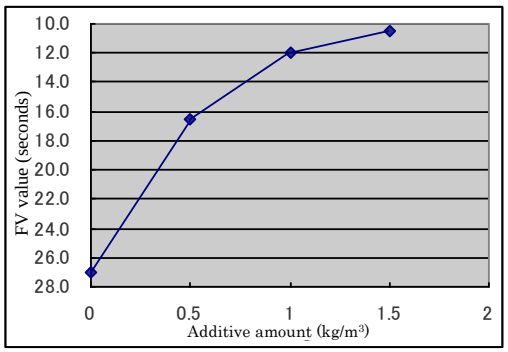
Slump value: 11.0 cm

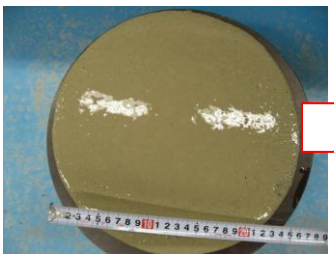


After adding TG Rock 1.5 kg/m^3

Slump value: 0 cm

<Table Flow Test>





Before adding TG Rock

Table flow value

27.0 cm x 27.0 cm

After adding TG Rock 1.5 kg/m^3

Table flow value

10.5 cm x 10.5 cm

Technica Goudou Co., Ltd.

(Head Office)
12th Floor, Higashi Kobe Center Bldg.
8-6-26 Motoyama-Minamimachi, Higashi Nada-ku, Kobe, Hyogo 658-0015
Phone: 81-78-436-0280 / Fax: 81-78-451-0257
(Tokyo Sales Office)
1st Floor, Ikebukuro FN Bldg.
3-9-10 Higashi Ikebukuro, Toshima-ku, Tokyo 170-0013
Phone: 81-3-6907-2566 / Fax: 81-3-3985-8611
(Sendai Sales Office)
9th Floor, Izumi Chuo Bldg.
1-16-6 Izumi Chuo, Izumi-ku, Sendai, Miyagi 981-3133
Phone: 81-22-375-3981 / Fax: 81-22-375-3983
(Kobe Laboratory)
Complex D, Room 405
1-2-25 Wadayamadori, Hyogo-ku, Kobe, Hyogo 652-0884
Phone/Fax: 81-78-671-1190

Website: **http://www.technica-goudou.co.jp/**