All Soil Type Sludge Improving Polymer

TG Polymer

Although inorganic solidifiers are used in general when reforming sludge of various properties that is generated in large volumes from civil engineering work, or in particular from dredging work and construction of foundations, etc., there were the disadvantages of not being able to realize immediate reform depending on the water content and particle composition of the sludge itself and the characteristics of the inorganic product and having to use a great additive amount of the solidifier. TG Polymer is a special polymer that is an improving material compatible with sludge of all soil types, is capable of trapping the water content within the sludge with an addition in a small amount, and makes immediate improvement possible while rationalizing the amount of the inorganic solidifier that is used.

Features

*** Highly safe**

As TG Polymer is a neutral product that is nontoxic, there is no worry of pollution occurring after improvement.

*** Capable of reforming soil in a short amount of time**

As TG Polymer only requires a short amount of time to reform the soil, this enables immediate transport after reformation.

*** Capable of reforming soil with a low additive amount**

TG Polymer exhibits even greater effects on use of low additive amounts with such as combined use together with an inorganic solidifier.

*** Stability after reformation**

Mud and soil that is reformed with TG Polymer suppresses fluidity by exhibiting frictional force between soil particles due to the adhesive performance that is an effect of the product.

Effects

By changing and improving the additive amount of TG Polymer, the property of the soil and sand after improvement significantly changes as shown in the pictures below from being sludge, semi-solidified, and then fully solidified. As the surface area increases the closer it gets to the fully solidified state, the soil is quick to dry compared to the sludge before the reform. Further, use in combination with an inorganic solidifier such as cement leads to immediately exhibiting strength.

Sludge

Semi-solidified state

Solidified state

Usage Instructions of TG Polymer

After mixing and stirring TG Polymer with sludge, mix and stir an inorganic solidifier with the sludge. Use of a crumb forming plant is optimal and the highly hydrous sludge will form crumbs after being stirred for approximately 15 – 30 seconds.

Before adding solidifier **After adding TG Polymer and cement** **After 24 hours**

Property Specifications of TG Polymer

Appearance: White powder

pH: 8.0 – 9.0 (0.2% solution)

Bulk specific gravity: 0.8 – 1.0

Packaging:20 kg bag
800 kg flexible container
10 t tank lorry

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