

## Liquid Dispersant

# TG Parikku III

TG Parikku III is a plastically fluidizing material that is known to be effective on clay having acuity in particular such as a high N value and high tackiness. The characteristics of ground formed of viscous soil that is subject to excavation using the pressurized mud and soil shielding method vary depending on the region. TG Parikku III is an innovative dispersant capable of exhibiting in a low concentration range, in relation to viscosity due to electrical elements obtained from mechanical resistance applied in the past during the stages when the ground layers were configured, the effects of such as reducing friction due to low mechanical resistance in the discharge process rather than excavation and preventing separation due to a self-standing property.

In performing the muddy water shielding method, TG Parikku III has the effect of lowering viscosity against the significant increase of viscosity of muddy water upon column excavation of silt and clay layers and is capable of reducing the volume of excess muddy water for treatment.

As this product is a liquid product, TG Parikku III is easily dissolved in water, does not require a large fluid creation plant like conventional products, and can be managed with a simply facility such as an underground trolley.

## Features of TG Parikku III

1. In the fluid transportation process of such as the pressurized mud and soil shielding and fluidization treatment methods, the dispersing effect of TG Parikku III promotes fluidity.
2. TG Parikku III has excellent effects of realizing separation and preventing adhesion which in turn prevents clogging of the chamber and the increase of torque pressure for the cutter during ground excavation of viscous soil having a **high N value and high tackiness**.
3. As TG Parikku III has an excellent dispersing effect, this makes it possible to lower the injection rate and suppress the volume of discharged mud. By combining use with TG Jeru as a supplementary agent, it is possible to prevent the excavated soil from returning to muddy water and enables reform into good quality excavated soil that is not loose.
4. As TG Parikku III has an excellent effect of preventing adhesion, it is also optimal for pressurized pumping sites (when excavating viscous soil).
5. Even in the process of injection with such as the fluidization treatment method, TG Parikku III is optimal for its effects of suppressing solidified bonding and promoting fluidity.
6. TG Parikku III has the effect of lowering viscosity against the increase of viscosity of muddy water when performing the muddy water shielding method and is capable of reducing the volume of excess muddy water for treatment.
7. TG Parikku III can be easily dissolved in water and be mechanically managed with a simple fluid creation plant which can also lead to a reduction of labor costs.

## Property Specifications of TG Parikku III

Appearance: Pale yellow liquid

pH:  $8.0 \pm 1.5$  (0.2% solution)

Bulk specific gravity:  $1.05 \pm 0.05$

Packaging: 18 kg can, 1 m<sup>3</sup> container

# Additive Amount of TG Parikku III upon Excavation with Pressurized Mud and Soil Shielding

TG Parikku III 3.0 – 10.0 kg/m <sup>3</sup>	TG Jeru 1.0 – 2.0 kg/m <sup>3</sup>
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Example of Use on Clod with a High N Value



<TG Parikku III Used Independently>

Capable of dispersing clod  
with a low injection rate



<TG Parikku III + TG Gel Used Together>

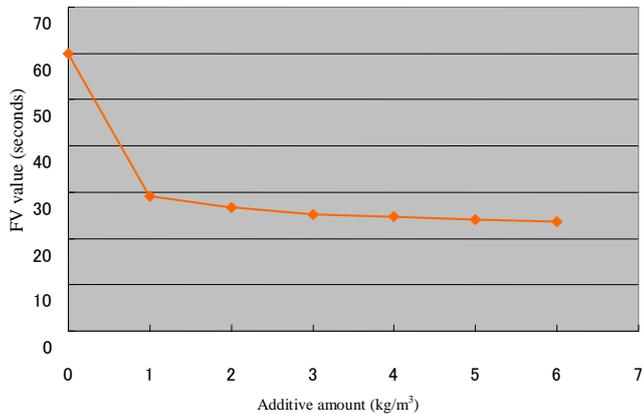
Capable of being reformed into discharge soil of good  
quality without extremely becoming muddy water

## TG Parikku III Viscosity Lowering Effect

Effect of lowering viscosity of muddy water

(Properties of Muddy Water)

FV value: 60 seconds, Specific gravity: 1.22



Viscosity lowering effect when mixed in cement

No.	Cement (kg/m <sup>3</sup> )	TG Parick (kg/m <sup>3</sup> )	PH	FV value (seconds)
1	0	0	7.5	31±1
2	8	0	8.5	101±1
3	8	5	8.5	29±1
4		6	8.5	26±1

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