

## Mud-making material for Slime injection type pipe jacking method

# TG Mover $\alpha$

# TG Mover L

It can correspond to all the soil by a combination of TG mover  $\alpha$  and TG Mover L. Since hardly occurs aggregation with clay and colloids, it holds the plastic fluidity. It can be expected to improve stability of the cut face and the discharged sludge.

### Characteristic of TG Mover $\alpha$

- TG mover  $\alpha$  uses a high-quality clay minerals as a raw material, and exhibits a high viscosity when dissolved in water.
- It is possible to increase the gel viscosity by the combined use of the TG mover L.

### Characteristic of TG Mover L

- It enhances the stability of the cut face in the sandy or gravel soil excavation since having properties of thickening and water cut.
- TG Mover L is liquid that has high immediate effect, and improves workability.
- There is an effect of preventing lost circulation because it has excellent mud film-forming.
- TG Mover L is a thickener that can also be used in earth pressure type and slurry type pipe jacking method.

### Procedure

- ① Please store a predetermined amount of water to the mixer.
  - ② Please put the clogging material to the first, and then sufficiently stir.
  - ③ Please add TG Mover  $\alpha$  slowly to the mixer, and stir continuously until the dispersing and the swelling.
  - ④ Please add the required amount of TG Mover L
  - ⑤ After stirring sufficiently, and start pumping
- \* Please use the fresh water such as tap water in making of the solution.

### Properties · Standards

Product	TG Mover $\alpha$	TG Mover L
Appearance	Light yellow powder	Pale white liquid
Specific gravity	2.5 ~ 2.7	1.05 ~ 1.15
Package	20 kg bags	18 kg cans
Main component	Silicate mineral	Acrylic copolymer

## Standard mix proportions for slime injection type pipe jacking method

### Mix proportion 1

Material	Unit	Amount of blend materials in soil classification (1m <sup>3</sup> )						
		A	B-1	B-2	B-3	B-4	C-1	C-2
TG Mover α	kg	20	40	40	40	40	0	40
TG Mover L	kg	0.5	0.5	1.2	1.8	2.4	1.0	0.5
TG Block	kg	8	10	12	12	14	0	10
Water	kg	985.2	975.8	973.5	973.0	970.8	999.1	975.8

\*TG Block ; Clogging material (Loss circulation inhibitor)

### Mix proportion 2

Material	Unit	Amount of blend materials in soil classification (1m <sup>3</sup> )						
		A	B-1	B-2	B-3	B-4	C-1	C-2
TG Mover α	kg	20	20	40	40	40	0	20
Powdered clay	kg	0	60	60	90	120	0	60
TG Mover L	kg	0.5	1.0	1.0	1.2	2.0	1.0	1.0
TG Block	kg	8	10	12	12	14	0	10
Water	kg	985.2	960.0	950.6	938.9	925.0	999.1	960.0

Soil classification	Content
A	Normal soil
B-1	Gravel soil (Gravel rate $\leq 30\%$ )
B-2	Gravel soil (Gravel rate $< 30 \sim 40\%$ )
B-3	Gravel soil (Gravel rate $< 40 \sim 60\%$ )
B-4	Gravel soil (Gravel rate $< 60 \sim 80\%$ )
C-1	Hard soil (N Value $> 10$ , $q_u < 5\text{MN/m}^2$ )
C-2	Hard soil ( $5\text{MN/m}^2 < q_u < 200\text{MN/m}^2$ )



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