

# TG Uragomu I

## Integral backfill material

By mixing TG Uragomu- I and cement, it can easily make the backfill material.

### Characteristic of TG Uragomu I

- ☐ Compared to the conventional product that was required several materials, it does not require a large yard space since the material is one type.
- ☐ It improves the workability because it requires only a small amount.
- ☐ Since it can be fast kneading and almost does not occur separation of material, pumping will be good.
- ☐ It can get the strength of more than natural ground.
- ☐ It certainly fills the void because almost no bleeding and volume change after curing is small.

### Procedure

1. Put water (164 L) into 200L mixer.
2. Add TG Uragomu I (1 bags), and stir sufficiently.
3. Add cement (100 kg), and then stir for 5 to 10 minutes.
4. Inject by pumping. (Conduct within two hours after preparation of the solution.)

### Applications

- ☐ Backfill material
- ☐ Intermediate-filling material
- ☐ Various filling material

### Properties and Package

- ☐ Package : 20 kg bags
- ☐ Appearance : Off-white powder
- ☐ Specific gravity : 2.5 ~ 2.6
- ☐ p H : 9.8 ~ 10.8

### Chemical composition (%)

SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	MgO	Na <sub>2</sub> O	CaO	K <sub>2</sub> O
60.91	22.76	3.96	2.15	2.02	0.54	0.49

(The above values are due to the measured values. It is not a guaranteed value.)

### Viscosity

Stirring time	P-fannnel (sec.)
Immediately after	11±2
After 30 min.	11±2
After 60 min.	11±2
After 90 min.	11±2
After 120 min.	12±2

### Unconfined compressive strength

Age	Strength (N/mm <sup>2</sup> )
3 days	More than 1.20 ~ 1.60
7 days	More than 2.20 ~ 2.60
28 days	More than 3.0

### Mixing ratio

Total Volume	Water	TG Uragomu I	Portland cement
200 L	164 L	10 kg	100 kg
1 m <sup>3</sup>	820 L	50 kg	500 kg

### Handling precautions

- Please wear safety glasses, protective gloves, and protective mask during handling
- After handling, please wash your hand and face, and go gargle.
- If spilled from the bag, it should be recovered careful to not occur dust.

### Storage Precautions

- Keep at a certain place that is not on the state of water wetting and high-temperature and humidity.

### Emergency measures

- Please rinse with water for at least 15 minutes in case of eye contact. If necessary, please seek medical attention.
- In case of swallowed by mistake, please vomit if you can be vomit easily. If not, please do not induce vomiting, and please seek medical attention.

### Others

- We have created the contents on the basis of the materials information available at the moment. Therefore, the evaluation and described data is provision of information, and do not guarantee.



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