

CAC- Earth Foam 112

Polymer modified Soil conditioning foam

CAC- Earth Foam 112 is a polymerized soil conditioning foam specifically developed to use with tunnel boring machine. It acts as a soil conditioner for various types of soil conditions ranging from wet to sandy clay type. It creates a necessary cohesion and plastic properties of excavated soil as well as a reduction of wear at cutterhead. It reduce the cutterhead torque and maintain constant earth pressure in working chamber during excavation process.

AREA OF APPLICATION:

- Tunnel boring machinery
- Designed for below ground water
- Consistency control
- Soil slurry support

Primary uses to obtain-

- Works with both acidic and alkaline type soil conditions
- Easier 'mucking'.
- Improves rheology of the soil
- Reduce soil permeability.
- Reduction of internal friction in the soil paste and lower abrasiveness of the soil at the cutter head.
- Environmentally safe and non-toxic

METHOD OF APPLICATION:

CAC Earth foam 112 is used to generate stable foam in foam generator in tunnel boring machines. Its

concentration depends upon geology during tunneling and cutterhead design. The foam expansion and the foam injection rate onto the face, into the working chamber or screw conveyor depends on soil conditions encountered.

DOSAGE:

Dosage level may vary depending on soil condition. Typically it is used at 2 to 3% (range 1.5 – 4%) in water to make a solution. Other soil conditioning polymers can also be jointly used with this to strengthen the foam or to adjust the properties of the excavated soil. For the first use and combination with other soil conditioning agents, please contact your local CAC representative.

FOAM EQUIPMENT:

It can be used with the standard TBM dosing and foaming equipment.

TECHNICAL PROPERTIES:

Appearance	Light yellowish Liquid
Specific Gravity @25 ⁰ C	1.02 ± 0.020
Solubility in water	Soluble
pH (5% solu ⁿ .)	7 -9

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PACKAGING:

It is available in standard 200 lit. drum and other packing also available on demand.

STORAGE:

Material must be stored between 5°C and 40°C. kept dry and out of direct sunlight or freezer condition. If stored in original closed containers, it will have a shelf life of 12 months.

SAFETY PRECAUTIONS:

Standard precautions for handling chemical products should be observed: Avoid eye and skin contact and wear rubber gloves, safety glasses and other necessary protective equipment for personal protection. For further information, refer to the Material Safety Data Sheet.

Disclaimer:

The product information & application details given by the company & its agents has been provided in good faith & meant to serve only as a general guideline during usage. Users are advised to carry out tests and take trials to ensure on suitability of products meeting their requirement prior to full scale usage of our products. Since the correct identification of the problems, quality of the other materials used and on-site workmanship are factors beyond our control, there are no expressed or implied guarantee / warranty as to the results obtained. The Company does not assume any liability or any consequential damage for unsatisfactory results, arising from the use of our products.