

CAC[®]-Earth Grease 111

First fill Tail Sealant for TBM

CAC[®]- Earth Grease 111 is a first fill grade tail sealant to be used on shielded tunnel boring machines (TBM). Together with the wire brushes, the sealant forms an impermeable barrier between the tail shields of the TBM. It effectively seals the gap between the shield and concrete segments to prevent the ingress of water, grout and soil.

It performs best when used in conditions with an ambient temperature above 15°C.

AREA OF APPLICATION:

Tunneling with shielded TBMs equipped with a brush seal system.

Primary uses to obtain-

- ✓ Excellent sealing properties and resistance
- ✓ Excellent adhesion to any metal or concrete surfaces
- ✓ Protects the brushes against wear

APPLICATION GUIDELINES:

CAC[®]- Earth Grease 111 can be pumped by the TBM press plate system, if the pump is placed at the TBM shield (hose length as short as possible).

Consumption

The consumption of the first fill sealant can be calculated with 16 – 17 kg per linear meter of brush row.

TECHNICAL PROPERTIES:

CAC [®] -Earth Grease 111	
Form	Homogeneous paste
Colour	Off white
Odour	Slight odour
Density	Approx. 1.60 (gm/cm ³)
Consistency @20°C	210 – 230 (1/10mm)
Matsumara water pressure test @20°C	34.5 bar
Flammability	Self-extinguishing

PACKAGING:

CAC[®]- Earth Grease 111 is supplied in 250 kg and 70 kg metal drums, being suitable for the standard press plate pumping system installed in TBMs. Other packaging may be available upon request.

STORAGE:

CAC[®]- Earth Grease 111 must be stored at room temperature (10°C to 38°C). Store under covered place and protect it from direct sunlight. If these conditions are maintained and in unopened condition product shelf life can be expected of one year.

SAFETY PRECAUTIONS:

Always use protective equipment for personal protection when use this material and material should be used as directed. When in contact with the skin, it should be washed with water. Always read health and safety data sheet before using this material. Health and safety data sheet is available on request from local CAC representative.

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.

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