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MC-Montan Seal ST F1

First fill Tail Sealant for tunnel boring machines (TBM).

PRODUCT PROPERTIES:

The first-fill sealant is designed for the extensive protection of the brush seal from the very first application.

- A specially adapted formulation guarantees:
- Extensive protection of the brush seal against abrasion as well as against mortar and water ingress
- Increased consistency and adhesion compared to **MC-Montan Seal ST 11**.
- Longest possible flexibility of the brushes.
- Outstanding water and mortar resistance.
- Excellent interaction of the fibres with the brush seals.
- Pumpability even over longer distances.
- Base oil made from renewable raw materials, easily biodegradable.
- REACH compliant.

AREAS OF APPLICATION:

- Initial filling of the brushes.
- Emergency grade.

APPLICATION ADVICE:

- **Consumption:**
  - For an adequate initial filling of the brushes, 15-17kg **MC-Montan Seal ST F1** should be used per linear metre of brush seal. In order not to damage the brushes, it is recommended to inject into the brush seal using a flat-head lance.
  - For an emergency injection, injection is only recommended in the critical areas and in sufficient quantity to secure and clean the affected areas. The pump system on the TBM back-up can be used for this purpose.
- **Pumping system:**
  - The dimensions of the metal drums supplied are matched to the dimensions of the rams installed on the TBM. For pumping **MC-Montan Seal ST F1**, we recommend using the **MC-Montan Device HD** injection pump, which requires only minimal maintenance at maximum running time.
  - For initial filling, it is recommended that the pump is installed close to the shield tail.
- **Application on the construction site:** For individual advice and optimization of the application, please contact the "MC-Business Unit Tunnelling".

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TECHNICAL DATA:

Characteristic	Unit	Value	Comments
Acute toxicity Fish OECD 203	mg/l	> 100,000	NOEC
Density	kg/dm³	approx. 1.5	
Biodegradability Base oil		readily biodegradable	
Fire behaviour		self-extinguishing	
Consistency	mm	approx. 210	ASTM D 217
Matsumura water pressure	bar	34.5	bestanden
Pumpability		passed	
Water spray-off test		< 7	ASTM D 4049

PRODUCT INFORMATION:

Form	Pasty.
Colour	Beige.
Storage	Protect from direct sun radiation.
In-company production control	EN ISO 9001
Delivery form	250kg and 70kg metal drums

Safety instructions: Please note the safety information and advice given on the packaging labels and safety data sheets.

Note: The information provided here is based on our experience and correct to the best of our knowledge. It is, however, not binding. It will need to be adapted to the requirements of the individual building projects, to the specific application and to non-standard local conditions. Our data refers to the accepted engineering rules, which have to be observed during application. Given these preconditions we shall be liable for the accuracy of the information given as outlined in our sales and delivery terms and conditions. Recommendations by our employees that deviate from this information are only binding for us if they have been confirmed in writing. In all cases, the generally accepted rules and practices reflecting the current state of the art must be adhered.

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