

# Technical Data Sheet

## Troptogel® B



### Product characteristics:

Ready-made mixture of clay and cement to produce waterproof sealings in groundwater and monitoring wells.



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Sealings made of Troptogel® B are showing very low permeabilities and absolute volume resistance. No heat will be generated during the setting process. Troptogel® B is compatible with thermoplastic casings, e.g. SBF Norip®. Slurries made of Troptogel® B are stable against sedimentation and have good filtration properties to build up a dense filter cake at borehole wall. Low suspension density causes less external pressure load of backfilled casings compared with common cement slurries. We recommend the use of a colloid mixer for the best breaking down of Troptogel® B.

### Dosage:

Yield		per 25 kg bag	
520 kg	Troptogel® B	25 kg	Troptogel® B
+ 800 l	water	+ 39 l	water
= 1000 l	slurry	≈ 48 l	slurry

#### 1. Backfilling (complete borehole):

$$\text{Borehole diameter}^2[\text{dm}] \times 4,08 \rightarrow \text{Troptogel}^{\circledR} \text{ B} [\text{kg/m}]$$

#### 2. Annular sealing:

$$(\text{Borehole diameter}^2[\text{dm}] - \text{casing diameter}^2[\text{dm}]) \times 4,08 \rightarrow \text{Troptogel B} [\text{kg/m}]$$

### Characteristics of the sealing:

Water-soild ratio:	1,54	
Marsh time:	> 45	s
Density:	1,33	g/cm <sup>3</sup>
Water setting:	< 1	%
Compressive strength (7 d):	1,8	N/mm <sup>2</sup>
Compressive strength (28 d):	3,3	N/mm <sup>2</sup>
Coefficient of permeability k <sub>f</sub> :	5 x 10 <sup>-11</sup>	m/s
Processing time:	5	h

### Form of delivery:

Troptogel® B is available in 25 kg in paper bags with PE-Inliner