

# Technical Data Sheet

## Dämmer

### Product characteristics:

Ready-made mixture of natural raw materials and cement to produce sealings for the backfill of subsurface excavations, annular spaces and boreholes.



### Product characteristics:

Sealings made of Dämmer are showing low permeabilities. Furthermore Dämmer suspensions are allowing cavity-free backfilling with volume stability. The Dämmer suspension can be produced in all suitable mixing units. Because of its free-flowing consistency and rheology, cavities can be backfilled from a distance of up to several hundred metres.

### Dosage:

<u>Yield</u>			<u>per 25 kg bag</u>		
847	kg	Dämmer	25	kg	Dämmer
+ 694	l	water	+ 17,5	l	water
= 1000	l	slurry	≈ 27	l	slurry

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

$$\text{Borehole diameter}^2[\text{dm}] \times 6,65 \rightarrow \text{Dämmer} [\text{kg/m}]$$

#### 2. Annular sealing:

$$(\text{Borehole diameter}^2[\text{dm}] - \text{casing diameter}^2[\text{dm}]) \times 6,65 \rightarrow \text{Dämmer} [\text{kg/m}]$$

### Characteristics of the sealing:

Water-cement ratio:	0,82	
Marsh time:	~45	s
Density:	1,54	g/cm <sup>3</sup>
Compressive strength (7 d):	0,6	N/mm <sup>2</sup>
Compressive strength (28 d):	1,2	N/mm <sup>2</sup>
Coefficient of permeability $k_f$ :	$5 \times 10^{-8}$	m/s

### Form of delivery:

Dämmer is available in 25 kg in paper bags with PE-Inliner