

# Basalt fibres B18 / B36

## Application data sheet

### PROPERTIES

Short fibre bundles of basalt for the reinforcement of concrete by interspersing in the binder matrix.

### APPLICATIONS

Increasing the flexural strength and reducing the risk of shrinkage cracking in the concrete

### COMPOSITION

Natural basalt rock, polymer sizing as surface protection and to improve tensile strength

### SUBSTRATE / FORMWORK

Paragraph not applicable for this product

### VERARBEITUNG

#### Working temperature

No specific information

#### Working time

No specific information

#### Mixing / Preparation

The short fibres are sprinkled into the fresh concrete mass during the mixing process.

#### Application / Processing

An addition rate of 3.5 % by volume is recommended as the optimum addition rate with regard to improvement of the mechanical properties, processability and acceptable fibre damage.

#### Setting / Hardening

No specific information

#### Tool cleaning

No specific information

#### Other information

In comparison with an addition of steel fibres of the same mass, an approx. 70 % higher load-bearing capacity was achieved in laboratory tests with an addition quantity of 3.5 % by volume at a fibre length of 36 mm.

## CONSUMPTION / YIELD

For effective static reinforcement, the fibre quantity must be at least 2% of the concrete weight

## TECHNICAL DATA

Cutting length:	18 mm and 36 mm
Linear density acc. to ISO 1889:1987:	300 ± 10 tex
Filament diameter:	14 - 16 µm
Moisture content acc. to ISO 3344:1977:	18 ± 2,0 %
Hue:	brown

## DELIVERY FORM

500 g bag, 10 kg box

## STORAGE

Store in a dry and appropriate place.

Can be stored for at least 12 months from the date of production in the sealed original container.

## SAFETY INSTRUCTIONS

No specific information

## DISPOSAL

Dispose of in accordance with official regulations. Empty containers should be recycled.

## GENERAL INSTRUCTIONS

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