



## Technical Data Sheet

# BETOCRETE 406 (FM)

**Art.-No. 4 06146**

## Superplasticizer for Concrete with Special Properties

### Fields of Application:

BETOCRETE 406 (FM) is a high performance pozzolanic superplasticizer for the production of dense and durable concrete. The use of BETOCRETE 406 (FM) is particularly recommended when highest demands have to be achieved regarding

- extraordinary strength
- increased resistance to frost and thawing agents
- water impermeability
- maximum resistance against aggressive substances or
- increased impermeability in case of waterhazardous substances.

Depending on dosage and concrete mix design, an increase of consistence of two classes can be expected. BETOCRETE 406 (FM) is suitable for pre-stressed concrete.

### Properties and Benefits:

BETOCRETE 406 (FM) is an aqueous suspension of a highly active pozzolane in combination with selected superplasticizers.

The effect is synergetic:

- reduction of the capillary pores by decrease of the w/c-ratio.
- capillary sealing via reaction of surplus lime hydrate with reactive pozzolane.

As for hardened concrete, the tightness, strength and resistance against chemical and mechanical attacks is substantially improved. Fair-faced concrete becomes more homogenous. BETOCRETE 406 (FM) improves the pumpability and stability of fresh concrete while minimising bleeding at the same time.

### Technical Data:

Raw Mat. Base:	blend of superplasticizers and additives
Colour:	anthracite
Form:	liquid
Density (20° C):	1.44 g/cm <sup>3</sup>

Processing temp.:	> + 5°C
Storage:	keep away from frost and dirt
Shelf-life:	12 months (in closed original containers)
Packaging:	1.100 kg IBCs 200 kg drums 25 kg cans
Dosage Range:	0.7 – 3.5 % on CEM

The final dosage quantity depends, among others, on the reactivity of the cement and the concrete recipe. This must be determined in suitable trials.

### Instructions for Use:

BETOCRETE 406 (FM) is always added as the last component to the ready mix. Sufficient final batching times must be allowed.

During first use, 2/3 of the usual water quantity is dosed, followed by the required quantity of BETOCRETE 406. Further batches are produced with the so determined water quantity.

In case of longer idle times, but at least every three months, BETOCRETE 406 (FM) should be homogenized by stirring or repumping before each application.

Suitability tests accord. to valid standards and norms should be carried out prior to usage.

### Certificate:

Complies with EN 934-2 : T3.1 & 3.2.  
Certificate-no.: 0764-CPD-0012

Non steel corrosive according to DIN V 18998.  
This product is suitable for application with alkali-sensitive aggregates.

### Safety Advice:

Please adhere to the European  
Safety Data Sheet (MSDS)!