

# alphalt

## Superplasticizer FT30

### Superplasticizer for high quality concrete and concrete precast elements

#### Description

**alphalt FT30** is an effective superplasticizer for the economical production of high quality concrete in ready-mix and precast applications.

#### Performance

**alphalt FT30** causes a powerful dispersion of the cement particles and reduces the internal frictional forces of the concrete mixture. This leads to a high degree of flowability, workability and homogeneity. **alphalt FT30** does not entrain any additional air.

#### Application

increase in early and final strength due to strong reduction in the water-cement-ratio for a given consistency of the original mix  
high increase in consistency for the same level of strength  
simultaneous improvement in consistency and strength  
flow concrete with **alphalt FT30** for fast and economical placing  
precast concrete with **alphalt FT30** for reduced hardening time, lower heating cost, faster shuttering turnover, improved surface finish, reduced shrinkage  
**alphalt FT30** concretes with special properties:  
- with high resistance against chemical attack  
- with high frost-thaw-resistance  
- water unpermeable concrete

#### Dosage

Recommended dosage: 0,4 – 5,0 M.-% of cement  
Permissible dosage: 5,0 M.-% of cement

#### Instructions for Use

**alphalt FT30** has to be mixed thoroughly into the finished base concrete. The time for mixing should not be less than one minute in the case of stationary mixers with especially good mixing effect, not less than 5 minutes in the case of all other concrete mixers as well as mixing vehicles. Concrete containing **alphalt FT30** must be processed quickly due to slump loss, in particular when using rapid hardening cement and in case of high ambient temperatures. Second dosages of **alphalt FT30** may be added up to the amount of the permissible dosage. Proper mix design, especially a suitable amount of fines in the mix should be observed. Preliminary tests have to be conducted before use.

#### Technical Data

Form:	liquid
Colour:	dark brown
Density kg/dm <sup>3</sup> :	1,16 ± 0,03 kg/dm <sup>3</sup>
Dry matter:	31,0 ± 1,5 M.-%
pH-value:	8,0 ± 2,0
Chloride content:	chloride free acc. to EN 934-2
Alkali content:	≤ 6,0 M.-% (Na <sub>2</sub> O-equivalent)
Storage:	protect from frost, excessive heat and contamination
Shelf life:	one year in original packaging
EC-certificate no.:	0432BPR220002552
Supervision of Quality Control:	0432 MPA NRW

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