

BPB[®] REDUCEM[®] SUPERFLOW (FM)

High-performance superplasticizer according to EN 934-2:T3.1/3.2

Industrial use

Product No.: 259010010

Product Information:

Sustainability Assessment:

Reduction of the clinker factor in the cement

Reducing the water-cement ratio and increasing the durability of the concrete

Properties:

- highly superplasticizing property
- high early and final strength
- sophisticated geometric building components
- optimum compaction

Application:

for the production of precast concrete elements

admixture for the consistency classes F3 to F6

production of ECC and SCC

Compared to conventional superplasticizers, the additive results in a significantly better dispersion of the cement particles. The concrete obtains a denser structure and does not tend to segregate, bleed or sand. When the mixture is properly composed, uniformly coloured, streak-free and pore-free concrete surfaces are achieved. Despite a sufficiently long processing time (depending on the amount added, the type of cement and the temperature of the concrete mix approx. 60 minutes), the use of the additive leads to rapid hardening of the concrete.

Shorter covering times and higher start and end strengths are achieved.

Efficiently lowering the clinker factor makes it possible to reduce CO₂ emissions.

A reduction in the clinker factor in cement from 0.73 to 0.5 means a reduction of > 200 kg/CO₂ per tonne of cement (calculation basis = approx. 750 kg to 800 kg CO₂ per tonne of clinker).

Is added together with the aggregates or, if the aggregates are highly absorbent, to the finished concrete mix.

In the case of very dry or highly absorbent aggregates, the addition is made with the mixing water.

The concrete must contain sufficient cement, fine sand and ultrafines.

The mixing time must be determined individually in order to achieve a homogeneous mixture. A water reduction is not necessary.

Dosage:

0.4 - 1.5 wt.% of the binding agent content

The quantity to use depends on the required effect, cement grade and type of concrete.

Please call us for technical advice.

Prior to use, a suitability test according to EN 206-1 or any applicable standards or norms relevant in your country is required.

Specifications:

Appearance: liquid

Colour: colourless to slightly yellowish

Density: 1.05 ± 0.02 g/ml

Storage:

Under normal storage conditions (closed container, 20 °C) minimum shelf-life 12 months
Protect from frost, direct sunlight and contamination.

Packaging:

Containers 1025 kg, Drums 210 kg, Canisters 20 kg
Other delivery quantities on request

Safety Rules:

See EC safety data sheet.

The product should only be used with suitable protective gloves (EN 374) and safety goggles (EN 166).

When used, ensure good ventilation (5 to 15 air exchange per hour).

Assistance:

Please contact our Technical Application Centre.

Industrial use:

Recommended frequency and duration of use:

480 minutes/day

200 days/year

Environmental Exposure:

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or the sewage system.