REMEI BPB GmbH & Co. KG
BETRA GmbH

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Reference: Concrete Plasticizer

REDUCEM® ACTIVE (BV)

Concrete plasticizer with setting acceleration according to EN 934-2:T2
Industrial use
Product No.: 230019010

Product Information:

Properties:
– easier workability of the concrete and more readiness to compact
– increases the strength
– equalises the retarding caused by decreasing nighttime temperatures
– increase of cement due to cold weather is not necessary

Application:
admixture for the consistency classes F1, F2 and F3
precast concrete elements
ready-mix concrete
body concrete

The addition does not release the user from the measures to be taken when concreting in cool weather and frost (e.g. heating the aggregates and the mixing water).
Efficiently lowering the clinker factor makes it possible to reduce CO_2 emissions.
A reduction in the clinker factor in cement from 0.73 to 0.5 means a reduction of > 200 kg/CO_2 per tonne of cement (calculation basis = approx. 750 kg to 800 kg CO_2 per tonne of clinker).

The reduction in early strength due to a reduction in the clinker or cement content is compensated and the stripping strength is thus retained.
The reduction of 50 kg/m³ to 70 kg/m³ clinker causes a reduction of 40 kg $C0_2$ to 55 kg $C0_2$ per m³ concrete

Sustainability Assessment:
Reduction of the clinker factor in the cement
Reducing the water-cement ratio and increasing the durability of the concrete
Compensation for early strength reduction

EPD:
Concrete admixtures – Plasticisers and Superplasticisers
EPD-EFC-20210198-IBG1-EN

Dosage:
0.5 - 2.0 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. If used together with other concrete admixtures, a compatibility test is imperative.

Processing:
The additive should be added to the mixing water or to the last third of the water. Once added, ensure that the wet mixing time is sufficient; this should not be less than 60 seconds.

Specifications:

Appearance:	liquid
Colour:	yellowish to amber
Density:	1.35 ± 0.03 g/ml

contains following constituents acc. to EN 934-1:2008, A.2: nitrates

The user should consider this information as our recommendation for the application of our products. Prior to use, we strongly recommend to conduct preliminary tests.

Storage:
Under normal storage conditions (unopened, 20 °C) minimum shelf-life 6 months
Protect from frost, direct sunlight and contamination.
Stir before use. Close well after use.

Packaging:
Containers 1052 kg, Barrels 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.