

REBA (BE)

Set accelerating admixture according to EN 934-2:T6

Industrial use

Product No.: 210001010

Product Information:

Sustainability Assessment:

Compensation for early strength reduction

EPD:

Concrete admixtures – Set Accelerators

EPD-EFC-20210194-IBG1-EN

Properties:

- considerably shorter setting time
- increases the early strength
- protects the concrete against negative frost influences

Application:

concrete products

precast concrete elements

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 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).

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 CO₂ to 55 kg CO₂ per m³ concrete

The life cycle assessment data and the other contents of the sample EPD can be used to assess the sustainability of buildings in which the product has been installed.

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.

Dosage:

0.25 - 4.0 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.

at +5 °C to 0°C 0.25 mass % of the binding agent content

at 0 °C to -5 °C 0.75 mass % of the binding agent content

at -10 °C to -15 °C 1.0 mass % of the binding agent content

admissible dosage: max. 4.0 mass %

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.

Specifications:

Appearance: liquid

Colour: colourless

Density: 1.42 ± 0.03 g/ml

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

Storage:

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

Packaging:

Containers 1000 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.