

Technical Data Sheet Concretum C-DRY (L)

A) Description

Product:

Concretum® C-DRY (L) is a multi functional liquid additive for concrete. The product is a flow additive with accelerated hardening effect. It meets all requirements on a concrete additive of the group FM and HBE according to EN 934-2.

The additive Concretum® C-DRY (L) is used to produce the rapid-hardening and rapid-drying concrete Concretum® C-DRY.

Application:

Concretum® C-Dry (L) is used for the production of durable concretes with fast hardening and drying. Typical examples are:

- In general for the production of construction units which are expected to dry fast
- Maintenance of multi-story car parks
- Maintenance of bridges
- Maintenance and construction of concrete carriageways and concrete coverings with very short off-times (e.g. roundabouts, bus stops)
- In general where a waterproofing system is applied on the upper layer (screed)
- Replacement and maintenance of solid railway basements

See also product information on Concretum® C-DRY.

Concretum® C-DRY (L) can be used to produce precast concrete, job-mixed concrete and ready-mixed concrete.

Advantages:

Concretum® C-DRY (L) combines different functions. In spite of a severe reduction of the required amount of water, a good workability is maintained. Concretum® C-DRY (L) accelerates hardening and drying. Hence, the freshly cast areas are ready for reloading shortly after application. This allows quick processing work like sealing or flooring. In addition, Concretum® C-DRY (L) features low risk of cracking and high durability.

B) Product data

Function:

Concretum® C-DRY (L) meets all requirements on a concrete additive of the group FM and HBE according to EN 934-2. Furthermore, it guarantees to reach a moisture content of max. 4.0 CM-% after 48 hours on a defined reference concrete.

Colour:

Brown liquid.

Delivery:

10 kg canister, 200 kg barrel, 1000 kg IBC-container.

Shelf life:

12 months from production if stored properly.

Storage:



In unopen original packaging without direct insolation between +5°C and +30°C.

Chemical basis:
Modified polymer in water.

Relative density:
approx. 1.09 kg/l

pH-content:
approx. 4.5

Alkali content:
< 3.0 M-% (Na²O-equivalent)

Uniformity:
homogeneous

Usual hard material content:
30 +/- 2 M-%

Viscosity:
70 to 120 mPa s at 20°C

Content of water-soluble chlorides:
< 0.1 M-%

C) Operating instructions

Application:

Concretum® C-DRY (L) is solely permitted for the production of Concretum® C-DRY. Concretum® C-DRY (L) must be well circulated before every use. It is recommended to define the concrete mix design in cooperation with Concretum AG by a set-up of the concrete plant. This set-up usually consists of preliminary concrete tests to check relevant properties of fresh and hardened concrete. The compatibility between local raw materials such as cement and aggregates and Concretum® C-DRY (L) is tested also.

Dosage:

The dosage is defined by Concretum AG for every concrete plant during the set-up process. Referring to the total weight of cement and additives, the dosage is between 1.5 and 3.0%. In particular cases the dosage defined by Concretum AG shall be authoritative.

Mixing:

Concretum® C-DRY (L) is either added to the mixing water or added to the mixer together with the water. To fully exploit the high water reduction a wet mixing time of 150 - 180 seconds is recommended. To prevent excess water, it is recommended to start the additional water dosage (on top of the mixing water) not before 2/3 of the wet mixing time.

Additional information:

As long as there are no other regulations in this data sheet, the general rules of good practise in concrete production have to be followed. In addition, all measures on optimal processing and curing of concrete to standard SIA 262 have to be taken.



The product has to be profoundly mixed before every use. In case of freezing, Concretum® C-DRY (L) can be re-used after slow defrosting in room temperature and intense mixing.

Combatibility:

A combination of Concretum® C-DRY (L) with other additives such as air-entraining agents or retarders will be individually tested during the preliminary set-up process. After successful testing possible combinations will be approved by Concretum AG.

D) Data

All data published in this technical data sheet is based on internal laboratory tests of Concretum AG. Real values may vary due to external factors that cannot be affected by Concretum AG.

E) Country specific data

Data and values on products of Concretum AG may vary depending on the country of application. The corresponding local technical data sheets are valid. In the case of doubt Concretum AG provides information on valid data and values for the country in question.

F) Important safety information

For detailed safety information it is recommended to seek advice in the current material safety data sheet on our homepage (www.concretum.com).

G) Proof of defects

Products of Concretum AG feature the specific properties that are completely described in this data sheet. For quality control purposes Concretum AG retains samples of each production batch for 24 months. If products of Concretum AG are censured as defective by a customer, a verification of this statement is done solely by checking the corresponding batch sample by an internal testing procedure.

H) Legal information

This data sheet is part of a possible contract between Concretum AG and the customer. The properties of the products are completely described in section B. An application of the products has to be done according to both the instruction of Concretum AG and this data sheet.

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