

POWERCRETE® premix

Description

Powercrete® premix is a patented, ready-made concrete with a high thermal conductivity, which is used as a bedding material for high voltage cables. Due to the high thermal conductivity of Powercrete premix the heat that is produced in the cable loom can be efficiently transferred into the surrounding ground. Thereby the performance of the cable loom increases.

Formulation / m³

1,895 kg Powercrete® premix

≈ 265 l water

Density of fresh concrete

≈ 2,160 kg/m³

Mixing procedure

The delivered dry building material just has to be mixed with water to receive a ready-to-use fresh concrete.

Properties of fresh concrete

consistency

≈ F4 (according to EN 12350-5)

Processing time

≈ 1 h

Thermal conductivity

Wet status

≥ 3.0 W/(m·K)

Dry status

≈ 2.5 W/(m·K)

Compressive strength

(in accordance with DIN EN 196)

28 d
≈ 15.0 MPa

Status: June 2023

Page 1 of 1

The above data relate to tests under laboratory conditions with the usual metrological tolerances. These along with records of other "suitability tests" are designed to obtain information about the basic suitability of our product in respect of the intended purpose. Even in the case of a project-specific test, the information should not be regarded as a promise of properties with the effect that we can be held responsible for damages resulting from the absence of features and/or properties. Our information therefore does not release customers from the obligation to carry out their own specific tests and take decisions on their own responsibility.

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