PORALIT red

Application data sheet

PROPERTIES

Red special cement for the preparation of porous lightweight concrete

APPLICATIONS

Production of concrete foams with dry densities from 250 kg/m³ for filling cavities and as a heat-insulating base layer under screeds

Applicable for indoor and outdoor use.

COMPOSITION

Portland cement, hydrophobing agent, superplasticizer, thickener, iron oxide pigment

SUBSTRATE / FORMWORK

The substrate and the walls of the cavities to be filled must be clean and sufficiently stiffened to withstand the formwork pressure. Absorbent substrates must be prepared by prior treatment with EQ painting primer or covered with PE film.

PROCESSING

Working temperature

Do not apply at air, material and substrate temperatures below +5 °C and above +30 °C.

Working time

approx. 20 minutes (times refer to +20°C and 65% relative humidity.) Mortar that has already set must not be diluted with additional water, mixed and further processed.

Mixing / Preparation

Mix bag contents (25 kg) with approx. 7.5 litres of clean water to a flowable suspension. Processing can be carried out in a batch mixer or in a continuous mixer. For the production of very light concrete foams, the addition of a suitable superplasticiser is recommended.

Aggregate can be added as required to increase the final compressive strength.

The prepared suspension is intensively mixed with more or less foam, depending on the desired bulk density, to obtain foamed concrete. The foam required for this is to be produced in a separate process by means of a foam generator. To achieve good foam stability, the use of a protein-based foaming agent is recommended.

In practice, dry raw densities of around 250 g/l have been proven for wall insulation and dry raw densities of around 450 g/l for floor insulation.

Application / Processing

The ready-prepared foamed concrete is quickly placed in the cavity to be filled and, if possible, not moved afterwards.

Setting / Hardening

Depending on the raw density and temperature, the material needs between one and three days to set. During this time, it must be protected from mechanical loads and from too rapid water extraction due to sun, wind or draughts.

High raw densities cause faster setting than low raw densities. Low temperatures delay, high temperatures accelerate the setting and hardening.

Tool cleaning

Clean tools and equipment with water immediately after use.

Other information

No specific information

CONSUMPTION / YIELD

Consumption at dry bulk density 250 g/l (without addition of sand): approx. 180 g per litre fresh concrete Consumption at dry raw density 450 g/l (without addition of sand): approx. 320 g per litre fresh concrete

Yield at dry density 250 g/l (without sand addition): approx. 140 l fresh concrete per 25 kg bag Yield with dry raw density 450 g/l (without sand addition): approx. 80 l fresh concrete per 25 kg bag

TECHNICAL DATA

Processing temperature: Working time at 23 °C: Water requirement: Mixing time: Grain size: Hue: +5 °C to +30 °C approx. 20 minutes approx. 7.5 litres per 25 kg approx. 1 minute flour fine red

DELIVERY FORM

25 kg bag, 5 kg bag

STORAGE

Store in a dry and appropriate place.

Can be stored for at least 12 months from the date of production in the sealed original container.

SAFETY INSTRUCTIONS

The product reacts strongly alkaline with moisture/water. Therefore protect eyes and skin. Wear rubber gloves when applying the product manually. In case of contact with skin, rinse with plenty of water. In case of eye contact, consult a doctor immediately. Observe further instructions in the safety data sheet.

GISCODE: ZP1 (cementitious products, low in chromate).





DISPOSAL

Dispose of in accordance with official regulations. Empty containers should be recycled. Material residues can be disposed of according to the Waste Catalogue Ordinance under waste code 17 01 01 (concrete) or 10 13 14 (concrete waste and concrete slurry).

GENERAL INSTRUCTIONS

The information in this leaflet only represents general recommendations. Should any questions arise in a specific application, please contact our responsible technical sales consultant or our online forum https://betonsprechstunde.moertelshop.com. Due to the use of natural raw materials, the stated values and properties may be subject to fluctuations. All information is based on our current knowledge and experience and refers to professional application and normal use. All information is non-binding and does not release the user from the obligation to check the suitability of the product for the intended use. A guarantee for the general validity of all information is excluded with regard to different weather, processing and object conditions. We reserve the right to make changes within the scope of further product and application technology developments. The general rules of construction technology, the applicable standards and guidelines as well as technical processing guidelines must be observed. With the publication of this technical data sheet, previous editions lose their validity. For the latest information, please refer to our website www.moertelshop.com.

Effective date: 11/9/2022, Version: 1.1 (replaces all previous versions)



