

PRODUCT DATA SHEET

Ultrafine-20

SULPHATE RESISTANT AND LOW ALKALINE MICRO CEMENT FOR INJECTION

DESCRIPTION

Ultrafine-20 is sulphate resistant, chromate reduced and low alkaline injection cement. It is micro cement with maximum particle size, d_{95} , 20 μm .

USES

Ultrafine-20 may only be used by experienced professionals.

Cement based injection.

CHARACTERISTICS / ADVANTAGES

Ultrafine-20 is a micro cement with excellent penetration characteristics ideal for extremely demanding injections. It has been finely ground to a specific particle size distribution, that makes it ideal to meet the requirements for demanding injection applications. The unique combination of the special grinding process and the specially selected clinker produce a cement with an excellent penetration capacity in rock and soil. Ultrafine-20 makes it possible to produce injection grout with extremely good flow properties even at low water/cement ratios. Test results show excellent stability, flow and filter characteristics at temperatures of 20 °C and 8 °C.

APPROVALS / CERTIFICATES

Ultrafine-20 complies (with the exception of setting time) with the requirements in SS-EN 197-1 part 1: Composition, Specifications and Conformity Criteria for Common Cements.
Designation in accordance with SS-EN 197-1 and SS 13 42 03.

PRODUCT INFORMATION

Packaging	20 kg bag, 1000 kg bigbag and bulk Please contact our customer service, for information of what packaging sizes are sold in Denmark.
Shelf life	Due to that the reduction of chromate successively loses its effect the shelf life is set to: Maximum 6 months from delivery date in unopened, sealed original bigbags or bulk. Maximum 18 months from delivery date in unopened, sealed original 20 kg bags.
Storage conditions	Ultrafine-20 is a finely ground product. Its high reactivity makes it more sensitive than normal cement. Storage in environments with damp air or direct contact with ground moisture damages the cement very quickly (within days or weeks) and should therefore be avoided.

Density

Compact density

approx 3100 - 3200 kg/m³

Bulk density

approx 800 - 1500 kg/m³**FURTHER INFORMATION**

Alkaline cont, ekv Na ₂ O (typically 0,5 %)	≤ 0,6 % by weight
Sulphate resistance, C ₃ A (typically 2,0 %)	≤ 3,0 % by weight
Particle size, d ₉₅	20 µm
Specific surface (BET)	Approx 1600 m ² /kg
MgO	Max 5,0 % by weight
SO ₃	Max 3,5 % by weight
Chlorides, calculated as Cl	Max 0,1 % by weight

Ultrafine-20 is manufactured at Cementa's terminal in Degerhamn using a fine grinding process developed by Cementa. Ultrafine-20 is based on the same clinker as Anlæggingscement. The grinding is done in mills specially developed for Ultrafine cement.

BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

ECOLOGY, HEALTH AND SAFETY

Portland cement normally includes small quantities of chrome compounds of both the sparingly soluble and soluble types. The latter are considered to be able to contribute to hypersensitivity to chrome and cause eczema in persons already allergic. Therefore, this cement is produced with reduced chromate content. Nevertheless persons with a developed hypersensitivity to chrome should avoid all contact with cement. Refer to related safety data sheet.

LEGAL NOTES

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May 2020, Version 01.01
02070705260000023

Ultrafine-20-en-DK-(05-2020)-1-1.pdf