

CN Expanded clay 10-20 treated - data

Ceramic expanded clay, made of natural clay, expanded and fired, dimensionally stable and pressure resistant.

Areas of application: Geotechnical filling material
Insulation of floors in contact with the soil
Cavity filling material
Drainage filling material



Functional principle: The coating causes a permanent, practically 100 % capillary interruption above the water level or where the expanded clay makes contact with the earth so that it is unable to absorb any more moisture. The installation weight (10 % compressed + approx. 2 M% balancing humidity) of approx. 260 kg/m³ remains above the water level/earth line. The capillary interruption relies on a superficial, water-insoluble crystalline alkaline-earth compound, which remains completely intact, even in the event of occasional flooding and allows the the expanded clay to dry back to its sorption humidity.

Geotechnical ballasting of water impact level WIL 1 and WIL 2 thus provide significant load reserves and thus safety.

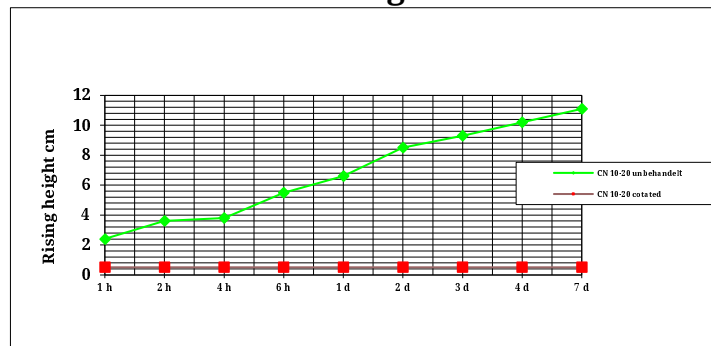
Technical data

Properties	Test procedures	Values
Designation		10 - 20 mm treated
Granule size group	(DIN EN 933-1)	8 - 20 mm
Granule shape		Round/cracked
Colour		Brown/grey
Bulk density \pm 15 %	(DIN EN 1097-3)	approx. 245 kg/m ³
Percentage of fract. Granules	(DIN EN 933-1/A1)	approx. 10 %
Bulk density, dry (mean value) ¹	(DIN EN 1097-6)	approx. 400 kg/m ³
Resistance to destruction (average)	(DIN EN 13055-1)	0,75 N/mm ²
Thermal conductivity		0,09 W/mK
Residual humidity on delivery		< 1.5 wt. %
Building material class according to DIN 4102		A1
Friction angle, effective		53,6 °
Friction angle ϕ' tr		\geq 40 °

¹ Not covered by CE marking

Free of constituents that damage concrete and quality-tested according to EN 13055-1

Water rising levels



Our production plant is certified according to:
DS/ES ISO 9001:2000 quality management system
DS EN ISO 14001:2004 environmental management system

DS 2403:2001 energy management system

Last updated: August 2021