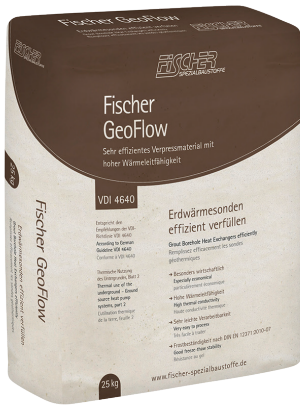


Fischer GeoFlow®

Very efficient grouting material with effective thermal conductivity for geothermal probes, well drilling and underground engineering



- ✓ **High cost-efficiency**
Efficient use of material due to high productivity.
- ✓ **Effective thermal conductivity**
Thermally optimised additives, as well as fine aggregates with an effective thermal conductivity of 2.0 W/mk.
- ✓ **Conforms to VDI 4640**
Thermal use of the subsoil, sheet 2.
- ✓ **Very easy to process**
Good-quality of product facilitates everyday work on the construction site easier.
- ✓ **Sulphate resistance**
Especially for geothermal drilling in case of sulphate-aggressive groundwater.
- ✓ **Frost resistance**
According to DIN EN 12371:2010-07.

Fields of application

Fischer GeoFlow® has been specially developed for backfilling of the geothermal probe drillings, but also for sealing and backfilling work in the well construction and underground engineering. The product combines a particularly high productivity with a very high thermal conductivity. The material is also suitable for locations with sulphate-aggressive groundwater.

Suitable area of application	Can be used in any surface.
Mixing ratio	16.0 l of water: 25 kg of Fischer GeoFlow® for high-speed mixing systems. Pay attention to the precise water proportioning.
Water-binding value	0.6
Processing time	Process quickly after mixing.
Processing temperature	Can be processed from + 5 °C to max. + 25 °C
Consumption	1020 kg Fischer GeoFlow® per m ³
Productivity	985 l/t
Marsh funnel time (Outlet diameter 4,76mm)	68sec. (May vary depending on the mixing technique)
Suspension density	Laboratory value: 1.6kg/dm ³ ; On-site value: ≥ 1.58kg/dm
Suspension temperature	Laboratory value: 20°C; On-site value: 5–25°C
Stripping length	Laboratory value: <1.5% after one hour, 1.5% after 24 hours; On-site value: <2.0% after one hour
Effective thermal conductivity	2.0 W/mk measured by Geothermal Response Test
Compressive strength (after 1/2/3/4/7/28 days)	0.2 /0.6 /0.9 /1.4 /2.4 /6.2 MPa, Compressive strength of at least 1 MPa is achieved after 3.5 days.
Water permeability-coefficient kf	< 10 ⁻¹⁰ m/s, according to DIN 18130-1
Environmental sustainability	A certificate is available and can be requested at any time.
Freeze-thaw resistance	DIN 12371:2010-07
Sulphate resistance	Test certificate is currently being processed.
Resistance vs. descaling carbonic acid	A certificate is available and can be requested at any time.
Tools / Equipment	Fischer GeoFlow® can be mixed to a pumpable suspension in the standard mixing systems after adding clean water. The mixing time depends on the mixer, but should be selected until a uniform consistency is achieved.
Storage	Can be stored dry on a pallet for approx. 6 months in the unopened original containers.
Delivery form	25 kg sack /40 sack per Euro pallet + Big Bags
Notes about your safety	Contains cement, highly alkaline on reaction with moisture/water, therefore protect skin and eyes. In case of contact rinse thoroughly with water. In case of eye contact, consult a doctor. Not subject to classification according to the Ordinance on Hazardous Substances. Please note the safety data sheet for Fischer GeoFlow®.

Disclaimer: The above specifications are applicable for the tests under laboratory conditions with the usual metrological tolerances. These tests were carried out to investigate the suitability of the products with regard to the field of application. They are non-binding and do not release the recipient of the declaration from its own tests and trials. As a result of the absence of features and/or properties, we do not accept any responsibility; nor it is possible to derive any claims for compensation.