

KELCO-CRETE® DG Diutan Gum

High-performance viscosity-enhancing agent for cement-based materials

Characteristics / Chemistry

KELCO-CRETE® DG diutan gum is a water soluble biopolymer produced by fermentation and supplied in powder form.

KELCO-CRETE® DG diutan gum hydrates in the mix water and acts as a viscosity-enhancing agent (with pseudoplastic/shear thinning rheology profile) to prevent bleeding and segregation.

Fields of Application

KELCO-CRETE® DG diutan gum is suitable for stabilization of very fluid cement-based mixtures, e.g.

- self-compacting concrete (SCC)
- underwater concrete (anti-wash out)
- pervious concrete
- pigmented concrete
- flowable mortars and grouts

Technical Data

Physical shape	powder
Appearance	white to slightly colored
Particle Size (KTM 004)	180 µm (80 mesh), not less than 95 % through
Drying loss, [%] (KTM 003)	max. 15
Viscosity [mPa·s] (KTM 237) 0.25% gum in Synthetic Tap Water with PEG (3 rpm)	4000 – 6500
Dosage recommendation, [%] In relation to weight of water dosage	Typically 0.01 – 0.15

Test methods (KMT 004, 003, 237) are available on request.

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Further Technical Data

Packaging	25 kg paper bag
Storage	Store in dry conditions at usual ambient temperatures in its unopened original packaging
Shelf life	2 years (from date of production)
Storage class	11 (combustible solids)
Transport regulation	not known as a dangerous good according to transport regulations

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