

Technical Data Sheet

Kratasol Flowcast

High Range Water Reducing Agent for Concrete

Kratasol Flowcast is polycarboxylate basis of high range water reducers, superplasticizers of concrete.

Kratasol Flowcast – aqueous solution of polycarboxylate (copolymer of acrylic acid and unsaturated derivative of polyalkyleneglycols). The agent shows high water reducing properties.

Applications

Kratasol Flowcast – basis of water reducers, superplasticizers for production of high slump and high strength concrete. Kratasol Flowcast can be used as basis of admixtures for the production of the precast concrete due to excellent water reduction properties. This agent can be used as water reduction component of admixtures for the ready-mix concrete. Kratasol Flowcast is highly effective component for self-compacting concrete.

Advantages:

- high water reduction – 20÷40 % (depending on dosage and concrete components);
- high plasticizing effect (slump increasing from 40 to 230 mm) at low dosage (in most cases - 0,15÷0,2 % of admixture solid content on cement weight);
- high initial and final concrete strength;
- possibility of reduction the energy consumption at precast concrete production.

Technical Specification

	<i>Kratasol Flowcast</i>
Appearance	from yellow to brown homogeneous liquid, light opalescence is allowed
Solid content, % wt.	50±1
Specific gravity, g/cm ³ , (at 20°C)	More than 1,08
pH	4÷6
Viscosity, cPs at 23±0,5 °C (Brookfield #3, 50 rpm)	Max. 1000

Recommendations for use

Kratasol Flowcast – highly concentrated polycarboxylate aqueous solution (50 % wt.). It is recommended to dilute the product (to 15-30 % wt.) before usage. Preservation of the diluted solution is recommended.

We recommend to use the defoamer to control the concrete air content.

Slump loss retention agent (Kratasol Flowret) additive can be used for increasing the slump life of the concrete based on Kratasol Flowcast. Check the right Kratasol Flowcast/Kratasol Flowret ratio by lab testing (depending on required slump life and concrete components).

Add Kratasol Flowcast to concrete mix together with water (preferably with final third part of the mixing water). Do not blend admixture with dry mix. For equitable distribution of the admixture give sufficient time for mixing with concrete.

Recommended dosage (to decrease the concrete water content by 20 % and higher) – 0,15÷0,3 % of admixture solid content on the cement weight. Range of recommended dosages can be expanded. Optimal dosage should be determined by lab testing. Admixture overdose should be prevented. Kratasol Flowcast dosage depends on:

- cement chemistry;
- aggregates (clay content and others);
- concrete recipe

Storage

Admixture should be stored at +15÷+30°C. Keep containers closed when not in use. Admixture containers should be protected from sunlight and any heat sources. Improper storage can change admixture physical properties and usefulness. Compliance the storage conditions allow to keep admixture during 12 months from the production date.

See the Safety Data Sheet for detail information on safety-related issues.

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