

Technical Data Sheet

Kratasol Flowcast NP

High Range Water Reducing Agent for Concrete

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

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

Applications

Kratasol Flowcast NP – basis of water reducers, superplasticizers for production of high slump and high strength concrete. Kratasol Flowcast NP 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 NP 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;
- good compatibility with different cements.

Technical Specification

	<i>Kratasol Flowcast NP</i>
Appearance	Homogeneous liquid from light yellow to brown color, opalescence is allowed
Solid content, % wt.	50±1
Specific gravity, g/cm ³ , (at 20°C), not less than	1,08
pH	4÷6
Viscosity, cPs at 23±0,5 °C (Brookfield #3, 50 rpm)	380-680

Recommendations for use

Kratasol Flowcast NP – 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 NP. Check the right Kratasol Flowcast NP /Kratasol Flowret ratio by lab testing (depending on required slump life and concrete components).

Add Kratasol Flowcast NP 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÷0,25 % 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 NP dosage depends on:

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

Transportation and Storage

Temperature of the product during transportation should be not less than 10°C and high than 30°C.

Admixture should be stored at +10÷+30°C. Keep containers closed when not in use. Admixtures 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.

This information is based on our knowledge and experience at right product storage and usage. Nothing herein is to be guaranteed product properties whether expressed or implied. The customer should test and inspect the goods to determine the applicability of such information or the suitability of any products for their own practical purpose.