



**KUTRILIN**

## **KEDOBET SP 201**

**Superplasticizer based on molecular naphthalene-sulfonic acid condensate, with dispersant properties in accordance with EN 934-2**

### **Description and scope**

**KEDOBET SP 201** is adsorbed onto cement particles, thus increasing their negative charge. The mutual repulsion of the particles results in a better dispersion of the cement in the concrete, thus creating a more homogeneous microstructure, which contributes to the development of very high strengths in the hardened concrete.

At the same time finely dispersed cement particles increase the fluidity of fresh concrete and improve the workability (liquid concrete). The successive reduction of water to about 30% gradually decreases the fluidity of the concrete mass and increases the strength.

### **Dosage**

**KEDOBET SP 201** is dosed 0.8 - 1.5% by weight of cement. Increased dosing (overdosage) slows down the bonding of concrete and does not significantly affect the ultimate strength.

**KEDOBET SP 201** can be successively dosed to maintain workability without exceeding the total specified dose.

### **Application**

Unlike conventional additives, **KEDOBET SP 201** works optimally when dosed into concrete immediately before mixing is complete.

In this case, **KEDOBET SP 201** is adsorbed on the already formed gel structure formed at the beginning of the hydration of the cement and despite its small dosage has maximum effect. In contrast, if it is dosed into water at the beginning of the concrete preparation, only a part of it binds to the gel structure and the remainder is adsorbed onto the non-hydrated cement particles and has no significant effect.

**KEDOBET SP 201** is used to the fullest extent with the correct route of administration and produces optimum results with minimal dosage. **KEDOBET SP 201** does not significantly affect air entrainment into concrete.

However, air particles entering the concrete from other reasons **KEDOBET SP 201** produce in the form of homogeneously distributed tiny bubbles.

**KEDOBET SP 201** does not corrosion promotion effects on steel embedded in concrete.

### PHYSICAL - CHEMICAL CHARACTERISTICS

Apperance	Brown liquid
Density ( 20 °C ) , kg/m <sup>3</sup>	1200 ±0,02
pH	8,5 ±1,0
Thermal stability , °C	5 – 200
Chlorides	≤ 0,10



**KEDOBET SP 201** enables pumping of concrete, high-strength concrete production with low V / C factor, high-density and high-modulus concrete fabrication resulting in reduced deformation (reduced creep and clamping), extremely rapid increase in concrete strength, or higher processing dynamics pre-stressed elements in halls and on site, production of large series concrete goods, without heating, production of concrete with favorable arrangement of micro air pores and high compressive strength, which makes the concrete resistant to freezing and thawing cycles, as well as to the influence of aggressive water ideally filling of formwork with concrete, even in the case of very dense reinforcement and complex formwork, secure and firmer adhesion of reinforcement and concrete which reduces the required length of anchorage of reinforcement, preparation of waterproof concrete of high compressive strength.

Conducting concrete work in adverse climatic conditions, because even at elevated temperatures the consistency changes more slowly than in the case of ordinary concrete, excellent workability, maintaining workability for a longer period of time by successive dosing, significantly lower working pressure than usual, which extends the life of the pump. production of quality and durable concrete with neat edges and smooth surfaces, suitable for visible concrete and facade elements, considerable savings of cement or steel when water reduction is possible up to 30%, considerable savings on manpower and energy, as concrete is ideally spread and embedded.

### **Packing and storage**

**KEDOBET SP 201** can be purchased in 200 kg barrels, 1100 kg containers or in larger quantities to order.

**KEDOBET SP 201** has been stable for one year in well-sealed packaging. At temperatures below 5 ° C, it partially crystallizes. By raising the temperature and mixing the contents, the product returns to its original state without changing the quality.

Replaces all previous releases for this product.  
November, 2019.



CONFIRMATION OF CONFORMITY	DECLARATION OF PERFORMANCE 2477-CPR-2790-005																		
 2477	<p>1. Inique identification mark of product: <b>KEDOBET SP 201</b></p> <p>2. Intended use of the construction product acc to EN 934-2: <b>High range water reducing/ superplasticizing admixtures</b></p> <p>3. Name, registered trade name or registered trademark and contact address of the producer: <b>KUTRILIN d.o.o., Radnička cesta 173P, HR-10000 Zagreb</b></p> <p>4. The system or systems for assessing and verifying the stability of the properties of the construction product, as set out in Annex V.CPR: <b>System 2+</b></p> <p>5. The product is in compliance with the harmonized standard: <b>EN 934-2 Admixtures for concrete, mortar and grout - Part 2: Concrete admixtures</b> <b>Name and identification number of the notified body: Institut IGH d.d., NB 2477</b></p> <p>6. Evaluation of characteristics in relation to standard requirements</p> <table border="1"> <thead> <tr> <th>An important feature</th> <th>Property</th> </tr> </thead> <tbody> <tr> <td>Chloride ion content</td> <td><math>\leq 0,1\%</math> by mass</td> </tr> <tr> <td>Alkali content</td> <td><math>\leq 7,0\%</math> by mass</td> </tr> <tr> <td>Corrosion behaviour</td> <td><i>No corrosion promotion effects on steel embedded in concrete</i></td> </tr> <tr> <td>Compressive strength T3.1/3.2</td> <td><i>Pass</i></td> </tr> <tr> <td>Air content in fresh concrete T3.1/3.2</td> <td><i>Pass</i></td> </tr> <tr> <td>Water reduction T3.1</td> <td><i>Pass</i></td> </tr> <tr> <td>Increase in consistence T3.2</td> <td><i>Pass</i></td> </tr> <tr> <td>Retention of consistence T3.2</td> <td><i>Pass</i></td> </tr> </tbody> </table>	An important feature	Property	Chloride ion content	$\leq 0,1\%$ by mass	Alkali content	$\leq 7,0\%$ by mass	Corrosion behaviour	<i>No corrosion promotion effects on steel embedded in concrete</i>	Compressive strength T3.1/3.2	<i>Pass</i>	Air content in fresh concrete T3.1/3.2	<i>Pass</i>	Water reduction T3.1	<i>Pass</i>	Increase in consistence T3.2	<i>Pass</i>	Retention of consistence T3.2	<i>Pass</i>
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	<p>7. The product type described in item 1 is in compliance with the stated properties from item 6. Only the producer designated in point 3 is responsible for issuing the declaration of performance.</p>																		

December, 2020.