

# Superplast-500

## Admixture high range water reducing/ liquidizing

<p><b>Description</b></p> <ul style="list-style-type: none"> <li>• It's plasticizing admixture produced on the basis of sulphonated naphthalene - formaldehyde resin.</li> <li>• This double action admixture. Ideal liquefied concrete mix and accelerates the hardening, which increases the strength of the concrete.</li> <li>• Increases air content in concrete mix, resulting in an increase in frost resistance.</li> <li>• It's perfect for concrete demanding high-strength initial and final.</li> <li>• It is effective with a high content binding agents, using fine sand.</li> <li>• It is effective in dispersing the components of the concrete. Effective in influencing the rheological properties of the concrete mix.</li> </ul>	<p><b>Characteristics</b></p> <ul style="list-style-type: none"> <li>• Natur: homogeneous liquid</li> <li>• Colour: brown, uniform</li> <li>• Density: <math>1,12 \pm 0,03 \text{ g/cm}^3</math></li> <li>• pH: <math>7,1 \pm 1</math></li> <li>• Dry matter content: <math>29\% \pm 2\%</math></li> <li>• Alkali content expressed as <math>\text{Na}_2\text{O} \leq 2,0\%</math></li> <li>• Chloride ions content: <math>\leq 0,10\%</math></li> </ul> <p><b>Packaging</b></p> <p>Barrel 120 l Container 1000 l</p> <p><b>Conformity</b></p> <p>It's admixture conforms with standards PN- EN 934-2</p>
<p><b>Application</b></p> <p><b>Scope of application</b></p> <ul style="list-style-type: none"> <li>• all types of cements,</li> <li>• designed to class of consistence from S1 to S4 (by drop of cone method) and from F1 to F4 (by spreading method)</li> <li>• ordinary and compressed concretes,</li> <li>• reinforced concrete</li> <li>• concrete gallantry</li> <li>• we do not recommend dosing mixture to the dry ingredients,</li> </ul>	<p><b>Method of use</b></p> <p>Dosing limits from 1,0% to 3,0% admixture to the mass of cement.</p> <p>It's completely soluble in water. It could be added to the water before mixing or directly to the mixer. The amount of water is defined in depend of required consistency.</p> <p>The optimum dosage is experimentally determined taking into account the required properties of concrete and hardened concrete</p> <p><b>Precautions</b></p> <ul style="list-style-type: none"> <li>• Protection from sunlight, store at temperatures above <math>0^\circ\text{C}</math>.</li> <li>• Shelf life: 12 months.</li> </ul>

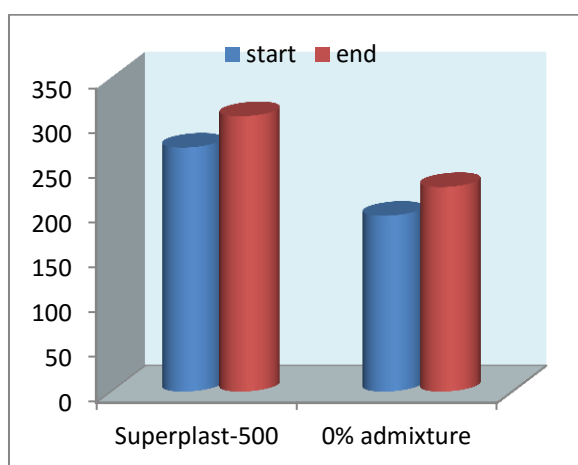
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Admixture high range water reducing/ super plasticizing

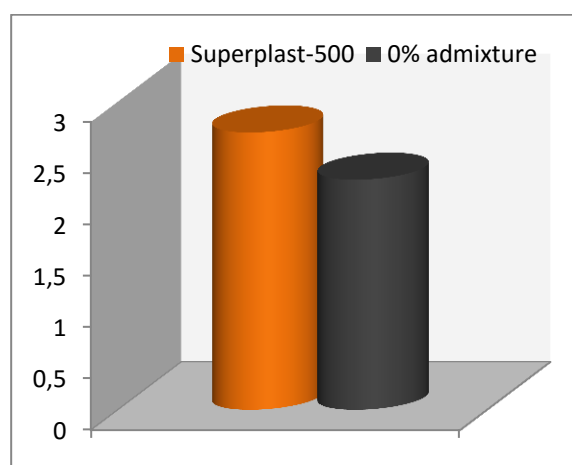
## Safety

**Superplast-500** is a product classified as « harmless». It is recommended to wear the normal protective equipment. For further information, please refer to the safety data sheet.

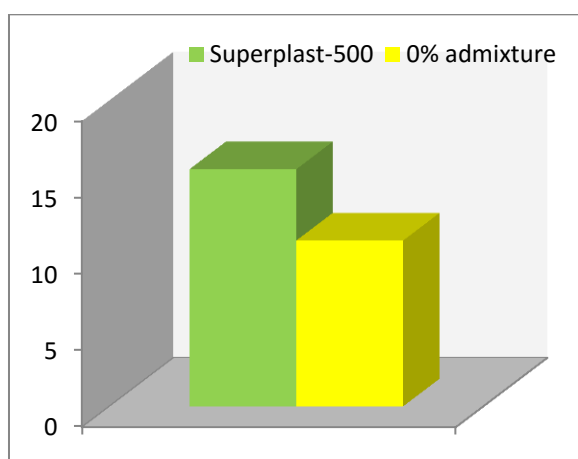
Participation admixture was 1,5 % by weight of cement.



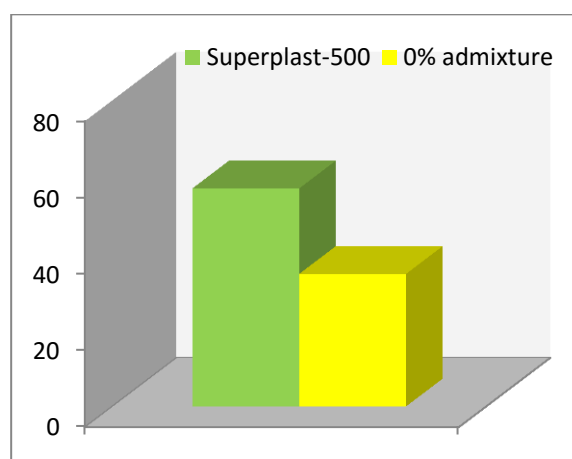
**Rys.1.** Setting time in temp. 20°C [min]



**Rys.2.** Volumetric air content [%]



**Rys.3.** Str. after 24 h in temp. 20°C [MPa]



**Rys.4.** Str. after 28 days in temp. 20°C [MPa]

The information contained in this document is given to the best of our knowledge and the results from extensive testing. However, it cannot, in any case be considered as a warranty involving our liability in case of misuse. Tests should be carried out before any use of the product to ensure that the methods and conditions of use of the product are satisfactory. Our specialists are at the disposal of the users in order to help them with any problem encountered.