

## Ultraplast-110

**A new generation superplasticizer significantly reducing the amount of water/ liquidizing/increasing strength.**

**The only one and unusual composition on admixture market.**

<p><b>Description</b></p> <ul style="list-style-type: none"> <li>• It is liquidizing admixture produced on the basis of polycarboxylic acid and natural polymers.</li> <li>• Allows the production of concrete with very high strengths at very low coefficient value w/c.</li> <li>• Positively affect the dispersion of cement particles, so that created a homogeneous cement paste is characterized by small forces of internal friction.</li> <li>• The concrete in his presence is characterized by a high cohesion.</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>1,10 \pm 0,03 \text{ g/cm}^3</math></li> <li>• pH: 6,8-7,8</li> <li>• Dry matter content: <math>30\% \pm 2\%</math></li> <li>• Alkali content expressed as <math>\text{Na}_2\text{O} \leq 1,7\%</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>
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<p><b>Application</b></p> <p><b>Scope of application</b></p> <ul style="list-style-type: none"> <li>• designed to class of consistence from S1 to S5 (by drop of cone method) and from F1 to F6 (by spreading method)</li> <li>• concrete class above C30/37</li> <li>• ordinary, compressed concretes, ready-mix concrete and <u>concrete that require a long time behavior of the working properties</u> (maintenance time of working characteristics is 120 minutes)</li> <li>• reinforced concrete, conglomerates elements, shotcrete</li> <li>• apply to aerated concrete should always be preceded by research</li> <li>• it is possible to modify the air content in concrete mix</li> <li>• we do not recommend dosing mixture to the dry ingredients</li> <li>• the type of cement used should be selected based on individual consultation</li> </ul>	<p><b>Method of use</b></p> <p>Dosing limits from 0,3% to 1,5% 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. The mixing water can be reduced by 30%.</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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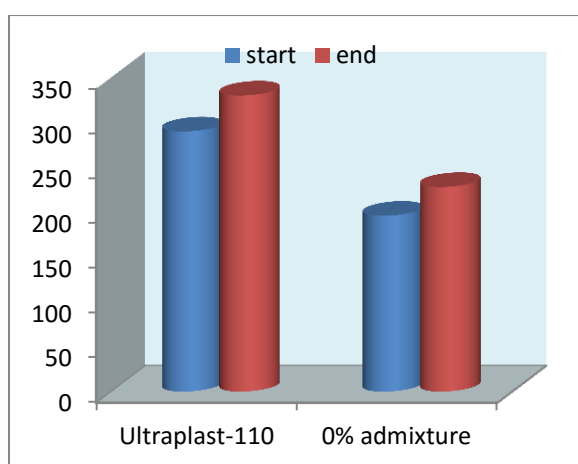
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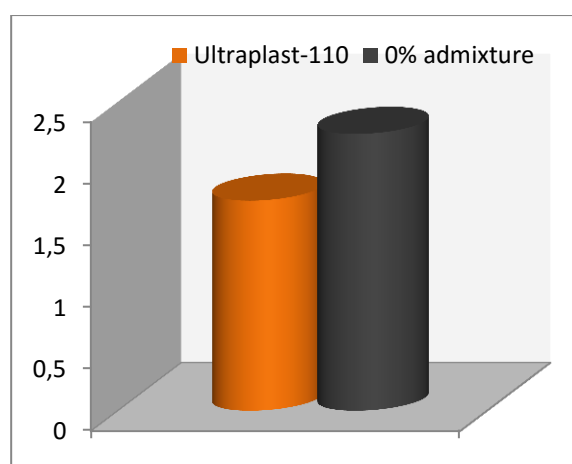
## Safety

**Ultraplast-110** 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.

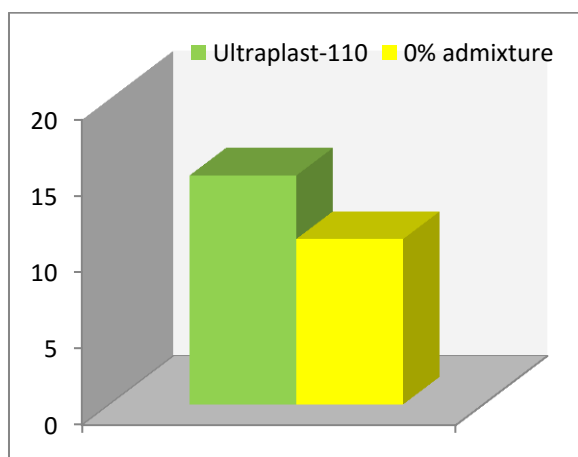
**Participation admixture was 1,0 % by weight of cement.**



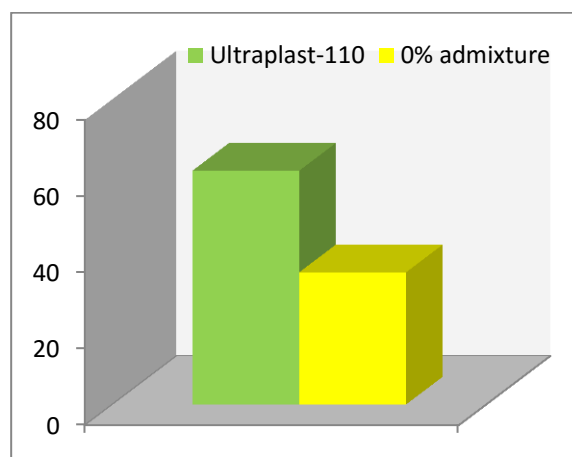
**Rys.1.** Setting time in temp. 20°C [min]



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



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



**Rys.4.** Str. after 24 h 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.