

Superplast-440

Admixture high range water reducing/ liquidizing / delay the binding

<p>Description</p> <ul style="list-style-type: none"> • It's plasticizing admixture produced on the basis of natural polymers and sulphonated naphthalene -formaldehyde resin. • It is characterized by action of delayed onset of binding by modifying the hydration of cement. • Increases air content in concrete mix, resulting in an increase in frost resistance. • With the extended process of hydration increases shrinkage of concrete. • The concrete of the admixture is characterized by high cohesion. 	<p>Characteristics</p> <ul style="list-style-type: none"> • Natur: homogeneous liquid • Colour: brown, uniform • Density: $1,10 \pm 0,03 \text{ g/cm}^3$ • pH: 5,3-6,3 • Dry matter content: $27\% \pm 2\%$ • Alkali content expressed as $\text{Na}_2\text{O} \leq 2,0 \%$ • Chloride ions content: $\leq 0,10 \%$ <p>Packaging</p> <p>Barrel 120 l Container 1000 l</p> <p>Conformity</p> <p>It's admixture conforms with standards PN- EN 934-2</p>
<p>Application</p> <p>Scope of application</p> <ul style="list-style-type: none"> • all types of cements, • designed to class of consistence from S1 to S4 (by drop of cone method) and from F1 to F4 (by spreading method) • ordinary and compressed concretes, • reinforced concrete • concrete gallantry • we do not recommend dosing mixture to the dry ingredients, • maintenance time of working characteristics is 120 minutes 	<p>Method of use</p> <p>Dosing limits from 0,5% 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 15%.</p> <p>The optimum dosage is experimentally determined taking into account the required properties of concrete and hardened concrete</p> <p>Precautions</p> <ul style="list-style-type: none"> • Protection from sunlight, store at temperatures above 0°C. • Shelf life: 12 months.

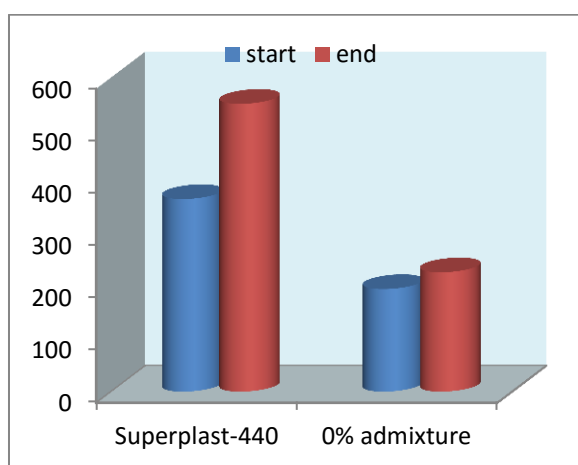
Superplast-440

Admixture high range water reducing/ super plasticizing/ delay the binding

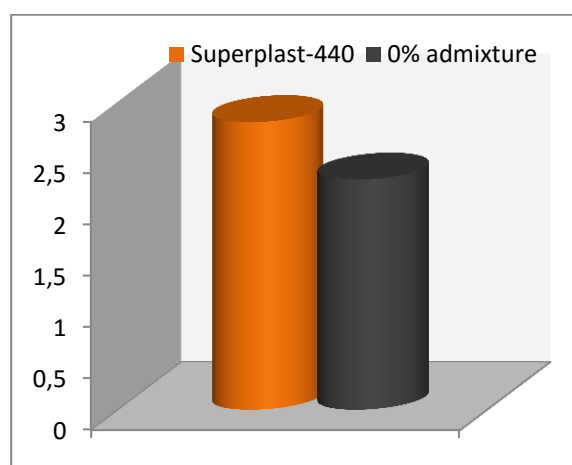
Safety

Superplast-440 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.

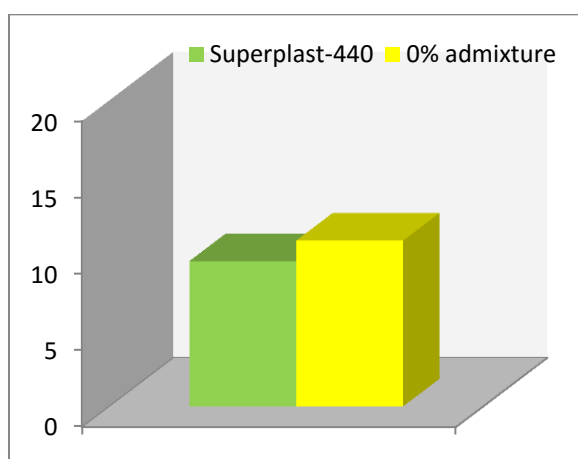
Participation admixture was 1,5 % by weight of cement.



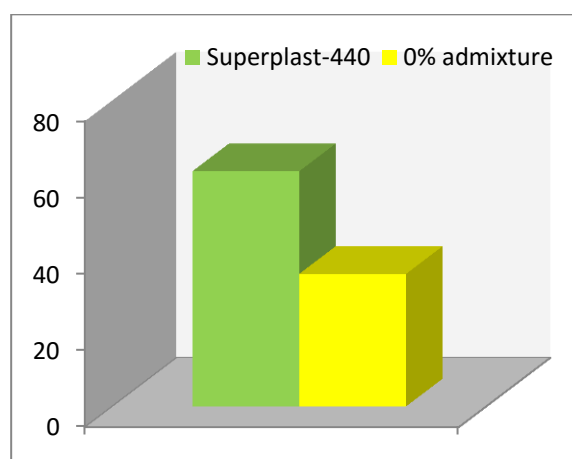
Rys.1. Setting time in temp. 20°C [min]



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.