

## ALPIMER N POWDER

### Concrete and mortar superplasticizer – dry base product

- Applications:**
- Concrete plasticizing with or without water/cement reduction
  - Industrial floors - improved chemical and abrasion resistance
  - Ready Mix concrete
  - Prefabricates in concrete
  - Masonry and self-leveling mortars
  - Cement reduction

<b><u>Technical Effects:</u></b>	<b>Physical effects on concrete</b>	<b>Technical advantages</b>
	Rheology effects	High fluidity of concrete without segregation
	Reduction of W/C - ratio	At fixed consistency increased early and final strength; Savings of cement
	Reduction of capillarity	Reduced permeability - less penetration of water and chemical solutions
	Impact resistance effect	Higher green impact resistance, sooner remolding of precast concrete
	Reduced shrinkage effect	Reduction of micro and macro cracks

### **DOSAGE:**

Applied as super plasticizer	0,5 - 0,6 % on cement
Applied as plasticizer	0,2 - 0,3 % on cement

### **Mixing:**

- Apply direct into the mixer together with other powder ingredients of the formulation



## TECHNICAL DATA SHEET

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### TECHNICAL DATA:

PARAMETER	VALUE
<b>Chemical Basis</b>	Sulfonaphthalene- Formaldehyde- Polycondensate
<b>Dry content – solids at 120°C/2hrs</b>	min. 92 %
<b>Colour</b>	pale brown
<b>Bulk density:</b>	0,55 – 0,65 g/cm <sup>3</sup>
<b>Solubility - 1g/19 ml H<sub>2</sub>O</b>	Clear soluble, no insoluble compounds
<b>pH - Value ( 1g/19 ml water)</b>	7,0 – 9,0
<b>Chloride ions content:</b>	max. 25 ppm
<b>Na<sub>2</sub>SO<sub>4</sub> content:</b>	3,7- 5%
<b>Surface tension – as 40 % solution in distilled water at 20°C</b>	min 70 dyn/cm

### Impact on consistency of concrete C25/30 at fixed W/C ratio:

Slump ASTM C - 143	from 6 cm to 21 cm
Spread DIN 1048	from 40 cm to 60 cm
Verdichtungsmass DIN 1045	from 1,25 cm to 1,0

### **PACKAGING:**

In 20 kg moisture proof PE lined paper bags,

### **STORAGE STABILITY:**

several years at Temp. below 30 °C under dry conditions in intact bags

### Health and environment protection:

Detailed information on health, safety, data relating to ecology, the toxicological properties of the material, etc. are available in the **Material Safety Data Sheet** available on request. The product may contaminate water, so it should not be disposed of directly into sewers, soil or surface water.

**Disclaimer:** Due to the variety of uses of each product and the specific characteristics of the user is required to conduct self-tests. Data products and other technical information should be seen merely as a guide, they describe the characteristics of the products collected during production and application. They do not constitute a warranty.