

CRETESTONE  
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## CRETOPLAST AD 1303 HHC

[Heat of hydration controlling Mid PCE based admixture]

### Description

CRETOPLAST AD 1303 HHC is the latest development of superplasticizer for concrete. It meets the requirements for high range water reducing superplasticizers with heat of hydration controlling agents.

### Uses

CRETOPLAST AD 1303 HHC is a unique multipurpose super plasticizer that is particularly suitable for the production of ready mixed concrete. Additionally, it provides high water reduction with heat of hydration control and improved fresh concrete characteristics.

Its uses are:

- A wide range of applications where excellent workability is requested.
- Concrete with high water reduction
- Controls heat of hydration in concrete
- Ideal for mass concreting
- Reduces the chances of thermal cracking
- Variable use in different concrete systems with different raw materials

### Characteristics / Advantages

CRETOPLAST AD 1303 HHC gives the following advantages:

- Strong water reduction, resulting in high density, high strength and reduced permeability
- Less sensitive against variations in aggregates and / or different cement types
- High efficiency even at low dosage rates
- Extended workability in conjunction with subsequent strength development
- Superior plasticizing effect, resulting in improved flow, placing and compaction characteristics
- Reduced shrinkage during curing and reduced creep when hardened

### Technical Data

Chemical Base	Modified Polycarboxylate based
Packaging	230 kg HDPE drums
Appearance / Colour	Brown Liquid
Shelf Life	12 months from date of production if stored properly in undamaged un- opened, original sealed packaging.
Density	1.08 kg/l ( $\pm$ 0.05) at 25°C
pH-Value	$\geq 6 \pm 1$

### Dosage

0.5% to 1.0% by weight of cementitious. Higher dosage may result in prolonged setting time. Actual dosage to be finalised on the basis of site trials. Stir well before use.

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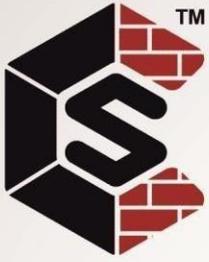


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### **Compatibility**

CRETOPLAST AD 1303 HHC may be combined with many other CRETESTONE products. Important: Always conduct trials before combining products in specific mixes and combinations. Compatible with all types of cement and cementitious materials.

### **Dispensing**

CRETOPLAST AD 1303 HHC can be added into the mixing water or directly into the concrete mixer after 50 – 70% of the mixing water has been added. The addition of CRETOPLAST AD 1303 HHC to dry aggregate or cement is not recommended. To achieve optimum performance a minimum wet mixing time, which is depending on the mixing conditions and the mixer performance, of 60 seconds is recommended.

### **Limitations**

Excessive water addition or overdosing may cause bleeding or segregation. Overdosing may cause extension of initial and final setting times.

### **Storage**

Store under cover, out of direct sunlight and protect from extremes of temperature. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging.

### **Disclaimer**

Whilst any information contained herein is true, accurate and represents our best knowledge and experience, no warranty is given or implied with any recommendations made by us, our representatives or distributors, as the conditions of use and the competence of any labour involved in the application are beyond our control.

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