



TECHNICAL DATA SHEET

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CONSOL P103 HE

High Range Water Reducer (Superplasticizer)

DESCRIPTION

CONSOL P103 HE is an innovative polycarboxylic ether (PCE) based superplasticizer ideally suited for precast industry. A specifically designed formulation with active ingredient, **CONSOL P103 HE** offers excellent dispersion of cement at low water binder ratio and exceptional early strength development.

CONSOL P103 HE complies with ASTM C494/C494M-19 for type F admixtures.

The rapid development of early strength of **CONSOL P103 HE** allows for zero or minimum application of heating curing processes. The combination of early strength, slump retention and late strength development allows **CONSOL P103 HE** to meet demanding concreting requirements, often exceeding the performance of conventional superplasticizers.

RECOMENDED FOR

CONSOL P103 HE is a unique multi purpose superplasticizer that is particulary suitable for the production of precast concrete. Additionally it provides ultra high water reduction, high early strength and excellent flow characteristic. **CONSOL P103 HE** is used for the following:

- A wide range of applications where good early strength development are required
- Concrete with ultra high water reduction (up to 30%)
- High performance concretes

BENEFITS

CONSOL P103 HE offers the following benefits:

- High water reduction capacity over conventional superplasticizers
- · Low permeability and high durability concrete
- Flowability for ease of placement and compaction
- Optimize curing cycle by shortening curing timer or decreasing curing time
- Eliminate energy required for placing, consolidation and curing
- Improved surface appearance and concrete quality

PRODUCT DATA

Form Liquid

Appearance Light Brown

Packaging

200 litres sealed drum 1000 litres IBC's or tanker delivery on request

Storage

CONSOL P103 HE must be stored at temperatures above 0°C, in tightly sealed original drums. If found to be frozen, thaw it and reconstitute by stirring.

Shelf Life

CONSOL P103 HE can be stored for 12 months if stored as recommend in unopened original containers

TECHNICAL DATA

Chemical Base

Modified polycarboxylate in water

Density

Specific density: $1.07 \pm 0.02 \text{ kg/L}$ (at 25 °C)

INSTRUCTION FOR USE

Dosage

For medium workability dosage rate is 0.2 - 0.9 % by weight of cement. For concrete with high workability, very low water/cement ratio and for self-compacting concrete 1.0 - 2.0 % by weight of cement.

Dispensing

CONSOL P103 HE is added to the gauging water or added with it into the concrete mixer.





Application

CONSOL P103 HE liquid admixture to be added to the concrete during the mixing process. The best results are obtained when the admixture is added after all the other components are already in the mixer and after the addition of at least 80% of the total water.

PRECAUTIONS

Health: **CONSOL P103 HE** does not contain any hazardous substances requiring labeling. It is safe for use with standard precautions followed in the construction industry, such as use of hand gloves, safety goggles, etc. For detail health, safety and environmental recommendations, please consult and follow all instruction on the Material Safety Data Sheet.

