

## Technical Data Sheet

### HA -100 ACCELERATOR

#### Type C Admixture (C 494/C 494M – 04)

##### 【Description】

HA 100 is an admixture product that allows the concrete to rapidly condense and harden. The product is a strong acid mixture solution, non-toxic, odorless, non-flammable. Flash setting admixtures should be used in the project before the cement with the pilot test, select the best dosage, can be used in large quantities. The product is widely used in shotcrete, grouting concrete and repair reinforcement works.

##### 【Uses】

The agent is suitable for spraying concrete construction in railway, highway, military, subway, city, underground space construction, all types of tunnels, mines, slope protection and emergency rescue projects, and has a wide range of applications.

##### 【Advantages】

- The quick setting property allows: rapid work progress.
- The unique product formulation provides extremely fast setting coupled with continual early-age strength development. Good long-term strength and durability are also achieved.
- HA 100 is a liquid product and thus provides easy handling as well as facilitating accurate addition to the concrete
- Very low dust production and therefore a good working environment.
- Since the product is non-aggressive it provides improved working safety, reduced environmental impact and lower handling costs.

##### 【Properties】

Property	Standard	HA - 100
Physical state	Aqueous viscous liquid	Aqueous viscous liquid
pH value	2±1	2
Water solubility	Nearly 100%	Nearly 100%
Specific gravity	1.36±0.03	1.36±0.03
Solid content	≥40%	45 ± 2.25%
Initial setting time/min	120 s	173 s
Final setting time/min	240 s	198 s
Compressive strength (6h) /MPa	3.5	2
Compressive strength (24h) /MPa	23	16

##### 【Typical dosage】

Add 3%-10% of the amount of cement is appropriate. The detection of this product is carried out under the requirements of the national standard EN-196-1, the customer can be based on the location of the environment and the use of raw materials for testing to find the best amount.

**【Use at other overdosing】**

Dosages outside the normal range can be used to meet particular requirements. Please contact Castech Technical Service Department for advice in these cases.

**【Estimating】**

200 liters drum and 1000 liters tank

**【Storage】**

The goods storage and transportation to prevent rain, sunlight and damaged containers; storage at ambient temperature 0 ~ 25 °C storage conditions the shelf life of six months, the case of a small amount of precipitation stirred before use, does not affect the results.

**【Technical support】**

CasTech offers full technical support package to specifiers, contractors and end users, as well as technical assistance on site and after sales constructions.

CasTech provides detailed method statements on all its products for use in various applications. These must be referred prior to starting the work. The information above is summery intended for guidance only.

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