

Product Data Sheet

CasTech HA-100

Nov-2025, Ver. 01.01



Chloride-Free Liquid Accelerator – ASTM C494 Type C

DESCRIPTION

CasTech HA-100 is an advanced concrete admixture that accelerates the setting and hardening of concrete structures. Its formulation is designed for swift and reliable concrete development. With a chloride-free composition, **CasTech HA-100** is non-toxic, odourless and non-flammable, making it a secure choice for any construction site.

This versatile admixture is suitable for applications such as shotcrete, precision grouting, and concrete repair and reinforcement, and excels in time-sensitive projects by delivering rapid early strength development.

USES

- Precision grouting
- Concrete repair and rehabilitation
- Cold weather concreting
- Fast-track construction projects
- Precast concrete production
- Emergency repairs
- High-strength concrete mixes
- Concrete overlays
- Any application requiring early strength

CasTech HA-100 is also suitable for concrete spraying projects, including railway, highway, military, subway, city infrastructure, underground space and tunnel construction, mining, slope protection and emergency rescue projects.

ADVANTAGES

Key advantages:

- Rapid work progress
- Fast setting and early-age strength
- Long-term strength and durability
- Easy handling
- Low dust production
- Improved working safety
- Reduced environmental impact
- Lower handling costs

TYPICAL PROPERTIES

Consistence	Aqueous Viscous
Colour	Pale White
Classification According to ASTM C494 / BS EN 934	Type C
Specific Gravity	1.32±0.02
pH Value	2 ± 1
Water Solubility	100%
Solid Content	≥ 40%
Initial Setting Time (@10%)	Less than 3 mins
Final Setting Time (@10%)	Less than 7 mins
Compressive Strength (6h/24h)	5 / 25 MPa

COMPATIBILITY

CasTech HA-100 is compatible with all Portland cements that meet recognized international standards. **CasTech HA-100** must not be used in conjunction with any other admixture unless prior approval is received from CasTech Technical Department.

DOSAGE

A dosage of 3% – 10% by weight of cement is appropriate. The product is tested to the requirements of EN 196-1; the optimum dosage should be established by trials using site conditions and raw materials.

Remarks:

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

PRECAUTIONS

Health & Safety:

CasTech HA-100 is non-toxic. Any splashes to the skin should be washed immediately with water. Splashes to the eyes should be washed immediately with water and medical advice should be sought.

Curing:

As with all structural concrete, normal curing methods apply.

Cleaning:

Spillages of **CasTech HA-100** can be removed with water.

STORAGE

Protect from rain, sunlight and damaged containers during storage and transportation. At an ambient temperature of 0 – 35°C the shelf life is six months. A small amount of precipitation does not affect the results; stir before use.

Fire:

CasTech HA-100 is non-flammable

PACKAGING

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CasTech HA-100 is available in IBC, 200-liter drums and in bulk tanks upon request.

TECHNICAL SUPPORT

CasTech provides technical support service on mix design, admixture selection, evaluation of trials, dispensing equipment etc. Please contact the Technical Department in these cases.

CasTech MIDDLE EAST FZE

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