

Product Data Sheet

CasTech VMA-100

Nov-2025, Ver. 01.01

Viscosity Modifying Admixture

DESCRIPTION

CasTech VMA-100 is a viscosity modifying agent designed to improve workability, cohesion and quality, giving precise control over concrete mixes. It ensures uniformity, reduces bleeding and segregation, and enhances pumpability, making placement and finishing smoother. Compatible with various materials, it gives consistent results in high-performance, self-consolidating and conventional concrete.

USES

- High-performance concrete
- Self-consolidating concrete (SCC)
- Architectural concrete
- Pumped concrete
- Mass concrete projects
- Repair and restoration
- Precast and ready-mix concrete
- Bridge and infrastructure construction
- Industrial flooring
- Tunneling and underground construction

ADVANTAGES

Key advantages:

- Enhanced workability
- Reduced bleeding and segregation
- Improved cohesion
- Better pumpability
- Enhanced aesthetics
- Versatility
- Temperature control
- Increased durability
- Efficient construction
- Consistent results
- Admixture compatibility to fine-tune concrete properties
- Cost savings

TYPICAL PROPERTIES

Appearance	Powder
Colour	White
Effective Content	≥ 95%
pH (1% aqueous solution)	5.5 ± 0.5

Manufactured and distributed under ISO 9001:2015 QM practices.

COMPATIBILITY

CasTech VMA-100 is compatible with various cement types, fly ash, GGBS, admixtures and concrete mix designs commonly used in construction.

INSTRUCTIONS FOR USE

During concrete mixing, add the recommended dosage of **CasTech VMA-100** and ensure thorough dispersion before introducing other concrete ingredients.

DOSAGE

Typically, **CasTech VMA-100** is added at 0.1 – 0.8% by weight of the total binder content.

PRECAUTIONS

Health & Safety:

CasTech VMA-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.

Cleaning:

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

STORAGE

Store **CasTech VMA-100** in closed containers away from moisture to prevent contamination. Shelf life is 12 months from the production date.

Fire:

CasTech VMA-100 is non-flammable

PACKAGING

CasTech VMA-100 is available in 25 kg bags.

Product Data Sheet

CasTech VMA-100

Nov-2025, Ver. 01.01



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

T6-04, Sharjah Airport Free Zone, Sharjah, UAE

P.O. Box: 121661 Tel.: +971-6-5489207

Fax: +971-6-5579879 Email: info@castechchem.com