

VX SilicaFume Master is a silica fume mineral admixture formulated to produce concrete with special performance qualities. It improves the hardened characteristics of concrete. VX SilicaFume Master is an ultra-fine material that, when added to concrete it physically fills the voids between cement particles resultin in an extremely dense and impermeable concrete.

VX SilicaFume Master is a dry silica fume powder certified to ASTM C1240 ‘Standard Specification for Silica Fume Used in Cementitious Mixtures’. In use, VX SilicaFume Master improves the performance of concrete and mortar formulations. It acts physically to optimise particle packing of the concrete or mortar mixture and chemically as a highly reactive pozzolan. VX SilicaFume Master is available in two forms: Undensified (920 U), bulk density typically 200 to 350 kg/m³; and Densified (920 D), bulk density typically 500 to 700 kg/m³.

BENEFITS

- Produces high early and higher ultimate compressive strengths.
- Protects reinforcing steel from corrosion.
- Precast usage.
- Shotcrete usage.
- Eliminates steam curing, saving on heating costs.
- High impermeability and significantly less rebound loss.
- Thicker applications with each nozzle pass and enhanced pumpability.
- Less material wastage and greater efficiency of product use.
- Improved bonding strength.

TECHNICAL DATA

PROPERTIES	UNIT	VALUE
SiO ₂	%	Min 85.0
H ₂ O	%	Max 3.0
Retained on 45µm sieve	%	Max 10.0
Loss on Ignition	%	Max 6.0
Specific surface area	m ² /g	Min 15.0
Pozzolanic activity index	%	Min 10.5

All technical data stated herein is based on tests carried out under laboratory conditions.

PACKAGING

The product is available in 20 kg bags, various other size bags, and bulk road tanker. Please contact our representative for more details.



TYPICAL APPLICATIONS

- Precast concrete
- Concrete exposed to environmental and chemical attack
- Ready mix concrete for high strength concrete
- High performance concrete
- Marine concrete
- Spray applied concrete

APPLICATIONS GUIDELINES

Dosage can be adjusted to meet various mix design requirements or to specific job site conditions. Trial concrete or grout mixes must be carried out to determine the appropriate dosage.

Typical dosage is between 5% and 15% of cementitious powder content.

STORAGE AND SHELF LIFE

VX SilicaFume Master should be stored at room temperature (min 10°C and max 38°C), kept dry and out of direct sunlight. If these conditions are maintained and the product packaging is unopened, then a shelf life of one year can be expected.

HEALTH AND SAFETY

VX SilicaFume Master should only be used as directed. We always recommend that the Safety data sheet is carefully read prior to application of the material. Our recommendations for protective equipment should be strictly adhered to for your personal protection.

