

# VISTA POWER X

(Hybrid Technology Silica Fume)



## DESCRIPTION

VISTA PowerX is a densified silica fume formulated to produce extremely strong, durable concrete. VISTA PowerX silica fume meets the requirements of ASTM C 1240.

## USES

VISTA PowerX used in:

- i High performance concrete
- i Precast concrete
- i Shotcrete applications
- i Structural concrete

And other fields of concrete construction where great demands are required on the durability and quality of fresh and hardened concrete.

## ADVANTAGES

VISTA PowerX contains extremely fine (0.15µm) latently reactive silicon dioxide.

The presence of this substance gives following advantages:

- i Increase in strength.
- i Increase Concrete Service Life.
- i Water retention and increased density when set.
- i Improved internal cohesion.
- i Improved pumping properties.
- i Improved water tightness.
- i Improved durability.
- i Improved surface finish.
- i Reduced chloride diffusion.
- i Increased resistance to abrasion.
- i Permeability is dramatically reduced, which makes.
- i Vista PowerX ideal for applications where concrete will be required to resist chemical attack.

## PROPERTIES

Color	Grey to dark grey powder
Density	>500 kg/m <sup>3</sup> Densified
Specific Surface Area	>15 m <sup>2</sup> /gm
Specific Gravity	2.2

## TECHNICAL DATA

SiO <sup>2</sup>	>92%
Alkalies as Na <sup>2</sup> O	< 1.5 %
Loss On Ignition	< 4 %
Moisture Content	< 3 %

## HOW IT WORKS

VISTA PowerX silica fume is a pozzolanic material that consists primarily of fine silicon dioxide particles in a non-crystalline form. Silica fume particles have a diameter of less than 1µm; about 100 times smaller than the average cement particle.

## POZZOLANIC ACTION

A chemical reaction takes place between the free lime Ca (OH) 2 in the cement paste and the Vista PowerX particles which results in the formation of additional calcium silicate hydrate (CSH) gel, the glue that holds the concrete constituents together. The formation of this extra binding force within the gel increases the concrete Strength.

## DOSAGE

VISTA PowerX silica fume is recommended for use in concrete and wet shotcrete applications at an addition dosage of 5-15% by mass of cement.

## APPLICATION

By use of VISTA PowerX concrete of highest quality can be produced.

The standard rules of good concreting practice, concerning production, placing and testing are to be followed.

Fresh concrete must be cured as per the relevant standard.

## HEALTH AND SAFETY INFORMATION

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

## SHELF LIFE

VISTA PowerX silica fume has a minimum shelf life of 24 months.



Manufactured & Marketed By:

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