



VISTA

VISTA CATASOFT C - 88 A Multipurpose Cement Mill Additive

Description :

VISTA CATASOFT C - 88 is a speciality cement additive synthesized at VISTA laboratories to assist cement industry in increasing mill output, reducing electricity cost, improving efficiency of grinding and reducing pack or silo set.

VISTA CATASOFT C - 88 is an organic complex amine salt ethoxylated in presence of cement strength enhancing chemicals and flow improvers through "SOL GEL" technology – FIRST of its kind in cement chemicals. Its molecule contains cationic (positive) as well as negative charges in the form of anion in balanced proportion to reduce the surface energy force causing cohesion of freshly fractured cement particles due to vanderwaal force.

Advantages :

- Increased mill output maintaining same cement fineness.
- Significant Reduction in unit power input & Grinding cost.
- Increased Cement Flow ability and reduced pack set or Silo set resulting in lower handling cost & reduction in waste.
- Increase cement strength through all ages and controls residue.
- Increased workability of Cement Mortar & Concrete.
- Increase life of Grinding media and linear plates i.e. decrease in maintenance cost.
- Improves IST & FST.
- Minimal dosage of 0.03 to 0.1 percent by weight of cement.

Specification :

Form : Liquid
Colour : Brown to amber
Specific Gravity : 1.10 – 1.30
Chloride content : Nil
pH Value : 7 + / - 1

It complies ASTM C 465 as processing additive for cements

Application of VISTA CATASOFT C - 88 :

Laboratory mill evaluations of clinker and other additions viz Fly ash, granulated BF or steel slag, Gypsum, limestone etc are recommended to determine initial blend proportion, grinding efficiency, mortar flow, pack set index, and compressive strength of cements at varying dosage to work out the most economic dose level. Cement mill trials should follow to finalize continuous use of this additive.



VISTA

Dosing equipment :

VISTA CATASOFT C - 88 should be accurately proportioned through a calibrated dosing system. Vista's technical service wing is ready to assist the customer

Addition rates :

Typical dosage rate may vary from 0.05% - 0.10% by weight of cements including Portland , Portland – pozzolona or Portland – slag cements as the case may be.

Storage :

Protect from freezing during cold climate. Once frozen it should be thawed out slowly and remixed thoroughly prior to use.

Shelf Life : Best before 1 year in packed condition.

Packing : Available in 250 Kg. HDPE Barrel & 1000 Kg. Container.

NOTE :

The contents of the technical data sheet are for general information and guideline only. Results shown here are generated from our laboratory or from our site experiences. This behavior may change as per prevailing condition at the time of application.

VISTA maintains a team of technical trained professional to provide full support in regards to any of our products

Manufactured & marketed by

VISTA CHEMTECH PVT. LTD.

(An ISO 9001 Certified Co.)

A SURANA GROUP OF INDUSTRIES

Corporate Office :

7/1B, Grant Lane, Kolkata – 700 012, (INDIA)

T : +91 33 2237 9394 / 2236 0469 / 2215 5513

F : +91 33 2237 9394

Works :

PO - Jalabishwanathpur, Amta

Howrah - 711 322

E : vista@asuranagroup.com ; **W :** www.asuranagroup.com ; **S :** asuranagroup

Ankleshwar Balasor Gangtok Howrah Kolkata



VISTA

VISTA COMBUSTION CATALYST

A Combustion Aid for Fossil and Agro Fuel

Description :

VISTA COMBUSTION CATALYST (VCC) is an innovative chemical. When added to coal (peat, lignite, bituminous) , coke or agro fuels – Bagasse, rice husk, jute waste. It helps in proper burning to explore maximum heat value of fuel reduces ash deposition and fouling of boiler tubes, hot air duct, chimney etc.

VCC catalyses the combustion by generation of active oxygen which accelerates oxidation of carbon, hydrogen, hydro carbon, and cellulosics. This results in complete combustion and increase in heat output per unit of fuel burnt. When optimized saving in fuel consumption economises fuel bill to the extent of 10 – 20%. As coal deposit is fast depleting saving not only preserves resources but reduces emission of green house gases (Co₂, NO_x, Sox) responsible for global warming. In addition use of VCC reduces burn-out, devolatalization, slagging and fouling of combustion units of all types operating with coal & other solid fuels.

COMPOSITION

VCC is based mainly on manganese salts supported by activator (promoter)

Chemistry of combustion

When solid fuels are burnt, the moisture reacts with carbon to generate valuable CO (carbon monoxide) and hydrogen. The burning of the former gases is made fast by VCC. The fixed carbon (C) and volatile hydrocarbons require sufficient supply of oxygen from air. Since air is composed of only 21% oxygen and 79% nitrogen (inert gas). The active oxygen produced by VCC in-situ. Catalyzes the system. The Oxidized atmosphere is generate by reduction of manganese compounds



Technical Specification

Appearance Brown-grey liquid
Specific Gravity 1.20 +/- .05

Dosage:

Usually 0.5% by the weight of coal, For 1 ton of coal, burnt, 5 kg VCC is to be mixed with charge.



VISTA

Advantage:

- o Reduces stock soot emission (air pollution)
- o Reduces un burnt carbon in ash
- o Reduces corrosion of coal burner (pulverized firing system)
- o Enhances carbon- oxygen reaction
- o Increases output of kilns, furnaces, boilers
- o Better heat conduction – improved burning results in coal saving (10-20%) irrespective of firing system / pulverized or otherwise.
- o Cleans the system removing unwanted residues
- o Minimizes work rate of blower and suction fans (power saving)
- o Enhances boiler life by reducing corrosion of met allies and refractories, fouling (deposition on convection heat surface, e.g. super heaters and reheaters)

Method of application:

Other than pulverized system of firing:

The liquid catalyst can be conveniently spread over the coal charge (nut, breeze or lump) @ 0.5% by weight of coal manually.

Pulverized system of firing:

For thermal power or other industries operating on pulverized coal firing, a dozer machine has to be installed to dose the catalyst either at pulverizer end or on conveyor.

Area of use:

Brick field * Sugar mills * Textile Processing * Confectionaries/ Condiments * Glass Melting * Cements Kilns * Refractories/ ceramic * Teas/Coffee * Manufacture * Producer/water gas generator * Metallurgy-smelting in Culpa, etc

Shelf life : Best before 1 year in packed condition

Storage : To be stored in dry condition under shade. Should not come in contact of flame or fire

NOTE :

The contents of the technical data sheet are for general information and guideline only. Results shown here are generated from our laboratory or from our site experiences. This behavior may change as per prevailing condition at the time of application.

VISTA maintains a team of technical trained professional to provide full support in regards to any of our products

Manufactured & marketed by

VISTA CHEMTECH PVT. LTD.

(An ISO 9001 Certified Co.)

A SURANA GROUP OF INDUSTRIES

Corporate Office :

7/1B, Grant Lane, Kolkata – 700 012, (INDIA)

T : +91 33 2237 9394 / 2236 0469 / 2215 5513

F : +91 33 2237 9394

Works :

PO - Jalabishwanathpur, Amta

Howrah - 711 322

E : vista@asuranagroup.com ; **W :** www.asuranagroup.com ; **S :** asuranagroup

Ankleshwar Balasor Gangtok Howrah Kolkata



VISTA

VISTA HYDRATION PROMOTER Slag and Fly Ash Activator

Description :

VISTA HYDRATION PROMOTER (VHP) is an inorganic composite made of oxides, hydroxides and salts of alkali, alkaline earth metal and amphoteric oxides of Group IV element. It promotes rapid hydration of the glassy phases, of both Pulverized Fuel Ash (Fly Ash) and Granulated Ground Blast Furnace Slag (GGBS), Pulverized Air cured Bolder, other slag derived from Sponge Iron sector and so on, when blended with OPC (Ordinary Portland Cement) clinker to manufacture composite cements like Portland Slag Cement (PSC) and Portland Pozzolona Cement (PPC).

The precise role of VHP is to assist in rapid strength development of both PSC and PPC which are very slow setting unlike OPC. Rapid hydration of both Slag and Fly Ash, being secondary cementitious materials, saves concreting cost. VHP-activated Blended Cement is also economical due to low level of OPC clinker usage. The mechanical strength and durability of such blended cements are superior to Ordinary Portland Cement.

Application and Advantage :

- Manufacture of premium brand high early strength PSC or PPC to compete OPC in terms of strength and durability.
- Production of high strength blended/composite cement having higher loading of Slag or Fly Ash and less of Clinker to reduce unit cost of production yet maintaining the same level of strength and durability.
- VHP allows incorporation of high volume of Fly Ash reducing proportionately OPC for concrete making in Ready Mix Concrete (RMC) business. As OPC is much costlier than Fly Ash, the unit cost of RMC is reduced.
- Production of Fly Ash Bricks and Shapes. Use of VHP considerably reduces hydraulic/air curing time and quickens re-cycling of moulds; thereby increasing speed of production.
- Rapid hardening Slag/Fly Ash cement based jointing mortar and plasters, making them water proof as well. Ceramic Tile Adhesives based on PSC or PPC harden thoroughly within 10-12 hours.
- Reduction of heat curing time of cellular concrete blocks and shapes containing VHP together with Fly Ash saves energy cost.
- Asbestos cement products – incorporation of more Fly Ash amounts to cost saving and carbon credit.



VISTA

Specification :

- a) Form - White / Off-white powder
- b) Bulk Density- 1000 to 1.100 Kg / M³
- c) PH Value - 10 to 14 (Alkaline)
- d) Organic Matter - Nil
- e) Solubility - Partly water dispersible
- f) Packing - 25 Kg HDPE Bag with inner liner
- g) Self Life- Best before 1 year in dry place

Dosage :

Depending upon the composition and content of slag or fly ash and nature of clinker, whether from Rotary or Vertical Shaft Kiln, dosage may vary from 0.5 to 1.5% by weight of blended cement. It is advised to fix the dosage after carrying out Laboratory Test as given in "Testing Manual" supplied with this leaflet. The product is a commercial innovation keeping in view the business of blended cement manufacturing units and for those using blended cement as Raw Material.

Grades :

There are two grades of VHP – i) Regular and ii) Super

Regular grade is meant for mini cement grinding units incorporating very high proportion of Slag / Fly Ash in manufacturing cement and which has non-structural usage like jointing mortar and plasters and similar applications, such as tile adhesives.

Super grade is recommended where the blended cements are used for structural concretes only and high strength and high durability are prime requirement. It is an excellent additive to upgrade cement quality for production of premium brand blended cement of high early strength or reduction of clinker yet achieving the bench mark quality.

NOTE :

The contents of the technical data sheet are for general information and guideline only. Results shown here are generated from our laboratory or from our site experiences. This behavior may change as per prevailing condition at the time of application.

VISTA maintains a team of technical trained professional to provide full support in regards to any of our products

Manufactured & marketed by

VISTA CHEMTECH PVT. LTD.

(An ISO 9001 Certified Co.)

A SURANA GROUP OF INDUSTRIES

Corporate Office :

7/1B, Grant Lane, Kolkata – 700 012, (INDIA)

T : +91 33 2237 9394 / 2236 0469 / 2215 5513

F : +91 33 2237 9394

Works :

PO - Jalabishwanathpur, Amta

Howrah - 711 322

E : vista@asuranagroup.com ; W : www.asuranagroup.com ; S : asuranagroup

Ankleshwar Balasor Gangtok Howrah Kolkata



VISTA

VISTA MINERAL GRIND PLUS

Raw Mill Grinding Aid

Description :

Mineral Grind plus is one of the latest innovation by Vista in the field of grinding Aid for mineral, Cement raw material, Coke, Coal, Calcite, quartz, dolomite etc.

The above mineral grinding involves rather higher power consumption than that stipulated in Rittinger's law in chemical engineering discipline, because of coating of powder on hammers, balls, rollers, interior mill surfaces and due to re-agglomeration /re-adhering of freshly fractured particulate minerals during and post size reduction operation. This phenomenon reduces powder flow ability/dispensability to a great extent increasing unit grinding cost.

Advantages :

Vista mineral grind plus when added @0.03-0.1% by mass of grinding feed offers the following :-

- Increase mill output (6% to 12%) depending on the efficiency of the grinding installation & the characteristic of raw meal to be ground
- Increase fineness for same energy input.
- Reduces grinding energy cost due to lesser power consumption.
- Improved flow characteristic of feed during grinding and storage.

Technical Specification:

Form : slightly viscous colorless liquid
Density : 1.09-1.11 gm/ml
PH value : 7-8
Solubility : Freely soluble in water.

Dosage:

Can vary from 0.03 to 0.1% by mass of charge depending on hardness, microstructure, and re-agglomeration characteristics of minerals

Dosing equipment:

The additive should be accurately dosed by means of a calibrated dosing pump. Vista's technical team arranges installation, and operation of dosing pump at site.



VISTA

Handling:

It can be sprayed as received into the mill or added on to the conveyor belt.

Safety Information:

Vista Mineral Grind Plus is non-toxic and non-flammable at ambient conditions. Keep it away from heat source.

Shelf life:

One year in unopened condition in original container.

Packing:

250 kg HDPE barrels and 1000 Kg container.

NOTE :

The contents of the technical data sheet are for general information and guideline only. Results shown here are generated from our laboratory or from our site experiences. This behavior may change as per prevailing condition at the time of application.

VISTA maintains a team of technical trained professional to provide full support in regards to any of our products

Manufactured & marketed by

VISTA CHEMTECH PVT. LTD.

(An ISO 9001 Certified Co.)

A SURANA GROUP OF INDUSTRIES

Corporate Office :

7/1B, Grant Lane, Kolkata – 700 012, (INDIA)

T : +91 33 2237 9394 / 2236 0469 / 2215 5513

F : +91 33 2237 9394

E : vista@asuranagroup.com ; W : www.asuranagroup.com ; S : asuranagroup

Ankleshwar Balasor Gangtok Howrah Kolkata

Works :

PO - Jalabishwanathpur, Amta

Howrah - 711 322