

ADMIXTURE : Naphthalene Base

Greencon 43

GREENCON 43 is a ready to use dark brown coloured superplasticizing admixture, confirming the specification of ASTM C 494 and IS 9103-1999 (Amendment 2007)

Advantages

Greencon 43

- Compatible with all types of cement
- Slump retention, with workability very good
- Increases the strength with maximum water reduction
- Control setting of the cement with optimum dosage
- Minimises the cost of concrete

Specification

Appearance	Dark Brown colour Liquid
Base	Sulphonated Naphthalene Formaldehyde
Solid content (%)	43-47
Specific gravity	1.24 ± 0.02
pH value	Minimum 6
Chloride content (%)	0.10 max
Storage	under shade
Shelf life	12 months

Dosage/Usage

Generally dose 0.6 to 1.2% by weight of cementitious material, but can be increased up to 1.4% depending upon the climatic condition. But, it is recommended to go for trial to finalise the dosage

Safety

This is a non toxic, non inflammable and non hazardous, any splash on human body should be immediately washed out with plenty of water.



Green Tech

An ISO 9001:2015 Certified Company

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Certified by :



SUPPLIERS & EXPORTERS

FLY ASH • GGBS • ADMIXTURES
& WATERPROOFING COMPOUNDS



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FLY ASH

Fly Ash is a by product of coal based thermal power station generated by the combustion of pulverised coal. Fly ash is a fine, grey amorphous powder. It is rich in silica & alumina and spherical in shape.

Characteristics

- Fine Particle Size
- Spherical Particle Shape
- Low Carbon Content
- Pozzolanic Reaction

Concrete Applications

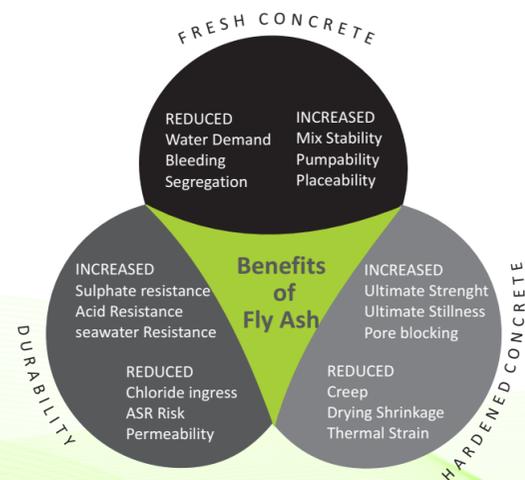
- Better Workability
- Reduced Permeability
- Reduced heat of Hydration
- Improved Pumpability
- Improved Sulphate and Chloride Resistance
- Reduced Risk of Alkali Aggregate Reaction
- Increased Long term Strength
- Better Concrete Finish
- Reduced Bleeding and Segregation
- Reduced Shrinkage and many more.....

Mansory Applications

- Reduced drying shrinkage cracks
- Good bonding , less rebound
- Better coverage area in plaster
- Excellent permeability resistant
- Improves labour productivity
- Smooth Finish
- Eco Friendly
- Cost saving and many more.....

Greentech's Fly Ash GT60 Comparision table with codal provision for Fly Ash

Sr No.	Test	Result %	Permissible Limit As per IS 3812 Part 1- 2003 F Type
1.	Total Silica (SiO ₂) + Alumina Content (Al ₂ O ₃) + Iron Content (Fe ₂ O ₃)	93.5	70 Min
2.	Total Silica (SiO ₂)	59.8	35 Min
3.	Calcium Oxide , (CaO)	1.0	Less than 10
4.	Magnesium Oxide, (MgO)	2.5	5.0 Max
5.	Sulphur Trioxide (SO ₃)	0.2	3.0 Max
6.	Total Alkali as Na ₂ O*	0.97	1.5 Max
7.	LOI	1.0	5.0 Max
8.	Chloride, (Cl)#	0.003	0.05 Max



GGBS

Granulated Blast Furnace Slag is obtained by rapidly chilling (quenching) the molten ash from the furnace with the help of water. During this process, the slag gets fragmented and transformed into amorphous granules (glass), meeting the requirement of IS 12089:1987 (manufacturing specification for granulated slag used in Portland Slag Cement). The granulated slag is ground to desired fineness for producing GGBS.

Advantages of GGBS with Portland Cement

- Consistent Quality
- Ensure higher durability of structure
- More sustainable than other cement substitutes such as Fly Ash (PFA)
- Better value for money
- Reduces the temperature rise and helps to avoid early-age thermal cracking
- Improved workability
- High resistance to chloride penetration
- High resistance to sulphate attack
- It is off- white in colour and substantially lighter than Portland Cement. Resultantly it helps soften the visual impact of large structure as bridges and retaining walls.

Replacement of GGBS in Concrete

- Replacement rates for GGBS vary form 30% to upto 70%.
- Higher replacement rates upto 70% are used in specialist applications such as in aggressive environment and to reduce heat of hydration

Physical Properties

Colour	Off- white powder
Bulk Density (loose)	1.0 - 1.1 tonnes/m3
Relative Density (vibrated)	1.2 - 1.3 tonnes/m3
Relative Density	2.85 - 2.95
Surface Area	350 - 500 m2/kg blaine

Packing Modes :

- Small Bags (40 kgs)
- Bulk Carriers
- Jumbo Bags

Chemical Composition

Chemical Constituent	Portland Cement	GGBS
CaO	65%	40%
SiO ₂	20%	35%
Al ₂ O ₃	5%	10%
MgO	2%	8%



ADMIXTURE : PC Base

Greencon - PC

Greencon - PC 105 R is a super plasticizing and retarding admixture for concrete which provides a plastic and cohesive concrete mix with increased durability and reduced shrinkage in the hardened state.

Advantages Greencon PC

- Concreting in high temperature conditions
- With very low w/c ratio
- Distance pumping purpose
- Large pours to prevent cold joints
- General purpose ready mix concrete
- Highway concrete, bridge deck concreting
- RCC purpose
- Self flow concrete upto M-45/50 grade of concrete
- High performance concrete

Features and Benefits

- Improves workable time by controlled retardation
- Improves compaction due to increased workability, without bleeding and segregation
- Reduces shrinkage
- Lowers permeability
- High ultimate strength without increasing cement content
- Compatible with all types of OPC/OPC+Flyash/PPC/PSC/GGBS and with other cementitious materials

Specification

Meets the requirement of IS	9103-1999 (amendment 2007) ASTM C494 Types F, EN 934-2 T3.113.2
Appearance	Amber coloured liquid
Base	Polycarboxylate Ether
Specific gravity	1.11 + 0.02
pH value	Minimum 6
Chloride content (%)	Nil
Air content	<1%
Shelf life	12 months

Dosage/Usage

Generally dosed in the range of 0.6 to 1.3% by weight of cementitious material, but go for trial mix for finalising the dosages