



**A New Generation Supplementary of Cementitious
Finest Filler & High End Additives**



📍 Guru Corporation, Ahmedabad-380015 , Guj. India
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G-FINE™

ULTRA FINE MATERIAL (SCM)
A NEW GENERATION SUPPLEMENTARY OF CEMENTITIOUS
FINEST FILLER & HIGH END ADDITIVE

DESCRIPTION

G-FINE™ is a new generation Supplementary Cementitious material (SCM) with a built-in high tech content. It is processed based on high glass content with high reactivity obtained through the process of controlled granulation process results in unique particle size distribution. The raw materials are composed primary of low calcium silicate based mineral additive.

Its latent hydraulic property and pozzolanic reactivity results in enhanced hydration process. Addition of G-FINE™ improves the packing density of paste component. In spite of its high fineness the results of in lowering water demand, admixture dosage and hence improving strength and durability parameters of concrete at all ages. G-FINE™ are observed in the concrete mix design, the initial rate of strength development was found to be increased or similar as other pozzolanic materials.



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APPLICATION

- Roads, Residential, Commercial structures
- Producing mass concrete for raft and pile foundations
- Low water to binder ratios for high performance concrete
- Better retention of workability and faster initial strength gain
- High Strength construction work in low or high temperature weather

BENEFITS

- Increase compressive strength ,permeability, workability of concrete
- Improves the durability of concrete
- It can be used in waterproofing as an additive
- It can decrease the heat of hydration
- Resistance against saltwater & chemicals
- Non-Toxic, Eco friendly
- Cost effective, economical solution

PROPERTIES AND PSD

Property Value
Specific Gravity 2.70 + 0.10%

Test Method as per IS: 11578

Sr. No.	Test	Result	Requirement as per IS 16715-2018
1	Specific Surface by BET (m ² /kg)	1670	1500 Min



Mix Proportions:

Ingredient	Cement	Flyash	Microfine Material	C.S.S	10mm	20mm	Water	Admixture
Source	OPC 53	Class F	G-Fine	Local	Local	Local	TMC	Mid PC
ecube-ID	2514	1968	2787	A-183	A-184	A-185	Lab	A-471
Qty (kg/m ³)	440	110	0	735	440	562	160	4.7
	440	110	25	706	435	577	160	4.9

Reference Code: IS 1199-Part 2: 2018

		Initial	30 Mints	60 Mints
Workability (Flow) mm	Control	550	460	350
	With G Fine	570	500	380

S.NO.	TESTS	UNITS	RESULTS	TEST STANDARDS
1	Physico Chemical Properties			In-house
1.1	Specific Surface	m ² /g	1.73	BET Surface Area Analyzer
1.2	SiO ₂	% by wt.	31.26	ICP-OES
1.3	CaO	% by wt.	41.77	ICP-OES
2	PSD (Particle Size Distribution)	--	PSD Report Attached	Particle Size Analyzer

Mix Proportions:

Ingredient	Cement	Flyash	MFM	C.S.S	10mm	20mm	Water	Admixture
Source	Ambuja CPC 53	Jaycee Cemguard	G-Fine	VSI	VSI	VSI	TMC	Mid PC
ecube-ID	353	354	428	355	358	357	-	A-472
Qty (kg/m ³)	385	105	20	725	452	577	150	5.2

Reference Code: IS 1199

		Initial	30 Mints	60 Mints
Workability (Slump Flow / Slump) mm	With G-Fine	550 x 580	510	210

Summary

Data	Value
MV(um):	3.50
MN(um):	0.721
MA(um):	2.032
CS:	2.952
SD:	2.170
Mz:	3.29
σ:	2.233
Ski:	0.338
Kg:	1.102

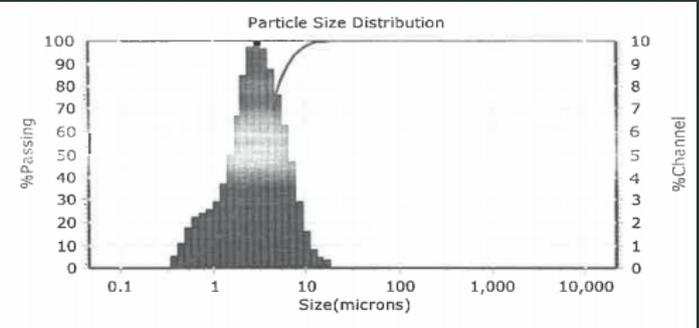
Percentiles

%Tile	Size(um)
10.00	0.939
20.00	1.526
30.00	1.995
40.00	2.430
50.00	2.897
60.00	3.45
70.00	4.15
80.00	5.13
90.00	6.71
95.00	8.23



-Tabular Data -

Size(um)	%Chan	%Pass	Size(um)	%Chan	%Pass
1408	0.00	100.00	3.27	9.97	56.98
1184	0.00	100.00	2.750	9.70	47.01
995.6	0.00	100.00	2.312	8.45	37.31
837.2	0.00	100.00	1.945	6.70	28.86
704.0	0.00	100.00	1.635	4.99	23.36
592.0	0.00	100.00	1.375	3.71	17.17
497.8	0.00	100.00	1.156	2.93	13.46
418.6	0.00	100.00	0.972	2.56	10.53
352.0	0.00	100.00	0.818	2.40	7.97
296.0	0.00	100.00	0.688	2.21	5.57
248.9	0.00	100.00	0.578	1.75	3.36
209.3	0.00	100.00	0.486	1.08	1.61
176.0	0.00	100.00	0.409	0.53	0.53
148.0	0.00	100.00	0.344	0.00	0.00
124.5	0.00	100.00	0.2890	0.00	0.00
104.7	0.00	100.00			
88.00	0.00	100.00			
74.00	0.00	100.00			
62.23	0.00	100.00			
52.33	0.00	100.00			
44.00	0.00	100.00			
37.00	0.00	100.00			
31.11	0.00	100.00			
26.16	0.00	100.00			
22.00	0.00	100.00			
18.50	0.33	100.00			
15.56	0.47	99.67			
13.08	0.81	99.20			
11.00	1.58	98.39			
9.25	2.94	96.81			
7.78	4.66	93.87			
6.54	6.27	89.21			
5.50	7.58	82.94			
4.62	8.72	75.36			
3.89	9.66	66.64			



- Measurement Info -

Title	
G-Fine	
Ultra Fine Materials	
Database Record	5
Run Number	Avg of 3
Date	03-Feb-21
Time	7:08 PM
Acquired Date	03-Feb-21
Acquired Time	7:08 PM
Serial Number	S4698
Sample Cell ID	1057
Calculated Data	
Above Residual	0
Below Residual	0
Loading Factor	0.0263
Transmission	0.922
RMS Residual	0.959%
Calc SW Ver	11.1.0.7
User Defined Calculations	
Name	Value
Recalculation Status	
Live-Meas :: Original :	

-SOP Info-

SHIVA ANALYTICALS(*)	
Timing	
Setzero Time	10 (sec)
Run Time	15 (sec)
Number of Runs	3
Multi-Run Delay	0 (min)
Delay First Meas.	Disabled
Analysis	
Powder	
Refractive Index	1.59
Transparency	Transp
Shape	Irregular
IPA	
Refractive Index	1.38
Options:	
Filter	Enabled
Analysis Gain	Default(2)
Analysis Mode	S3000/3500
Perspective	
Progression	Standard
Distribution	Volume
Upper Edge(um)	1408
Lower Edge(um)	0.243
Residuals	Disabled

DOSAGE

These goals are accomplished using cement pastes, mortars, and concretes with water Cementitious material ratios ranging from dosage: 5% to 10%. The segregation of cement paste is caused by high super plasticizer dosages that do not cause segregation of concrete with the same water Cementitious material ratio. Concrete containing G-FINE™ as a partial replacement for cement exhibits an increased compressive strength because of the improved strength of its cement paste constituent. Changes in the paste aggregate interface caused by appear to have little effect on the uniaxial compressive strength of concrete.



PACKAGINGS

G-FINE™ shall be packed and supplied in 25 Kg plastic bags/Customized packing is done if require in G-Fine™ brand. It is also available in Bulk Jumbo bags.

STORAGE

G-FINE™ when stored correctly has an indefinite shelf life. Like cement, G-FINE™ must be protected from contamination and moisture. The products can be stored in bulk in a clean, dry storage silo.

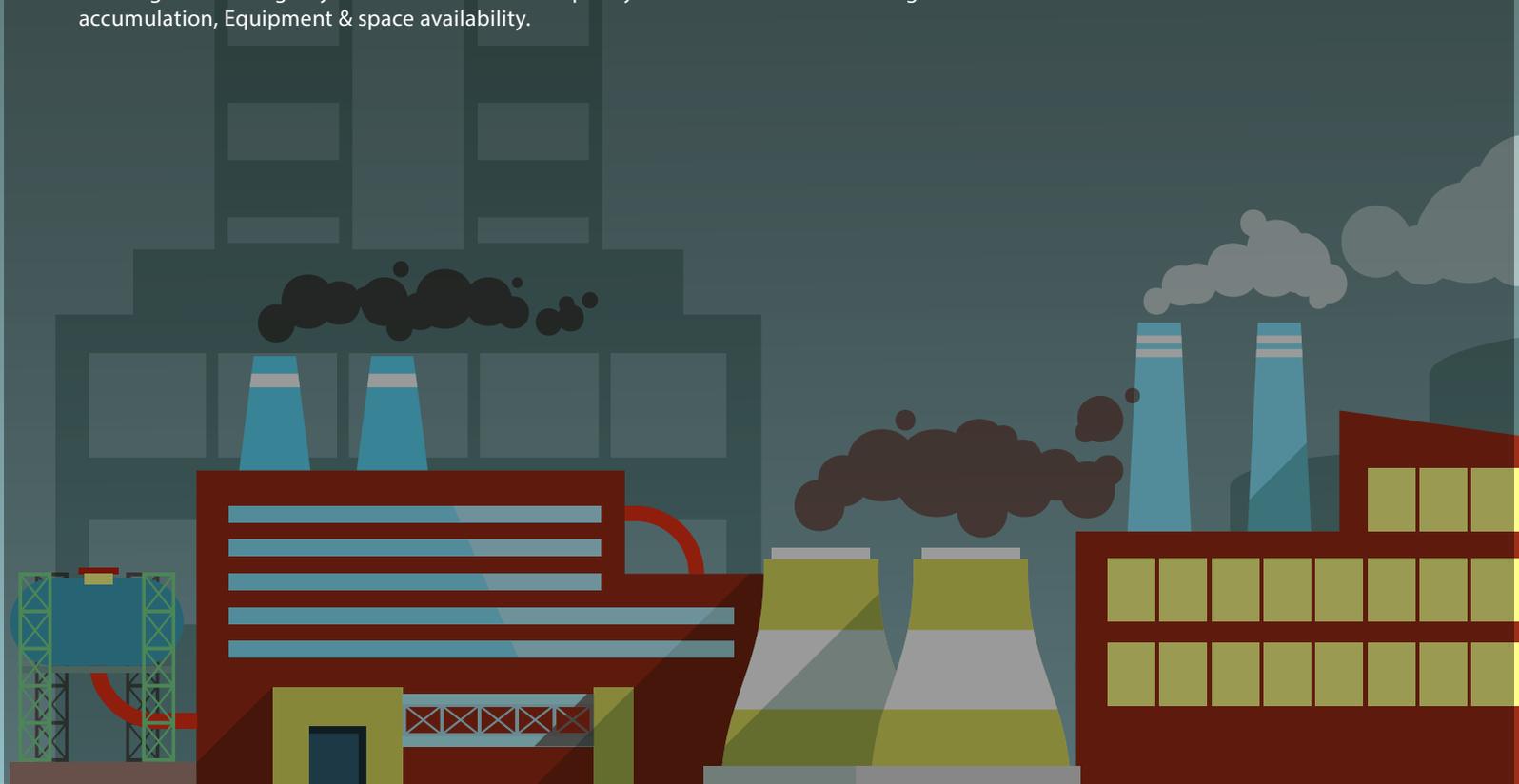
SAFETY INFORMATION / DECLARATION

Extensive testing has shown G-FINE™ to be non-toxic and environmentally friendly. No known significant health risks are associated with G-FINE™ but high concentrations of dust may cause irritation. It is recommended that suitable Protective clothing, gloves and eye/face protection is worn. In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice. The following information has been obtained from test results in an accredited laboratory. Although the information is accurate, variation in specific parameters might occur from time to time. No guarantee is therefore given or implied and GURU CORPORATION disclaims any liability from damage or consequential loss.

NOTES

All this data outlined above represent typical values of this product. They are not designed to convey absolute product specifications. The information in this data sheet is believed to be accurate. However, each purchaser should make its own test to determine the suitability of the product for their purposes. GURU CORPORATION makes no warranty, express or implied, with respect to the product and assumes no responsibility for any risk or liability arising from the use of the product.

Export Trade Notice: The trade is facing huge challenge in getting Equipment, Space in Vessel due to Container imbalance, Hence given stuffing day and Vessel schedule is purely tentative and sub to change with or without notice based on Volume accumulation, Equipment & space availability.



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