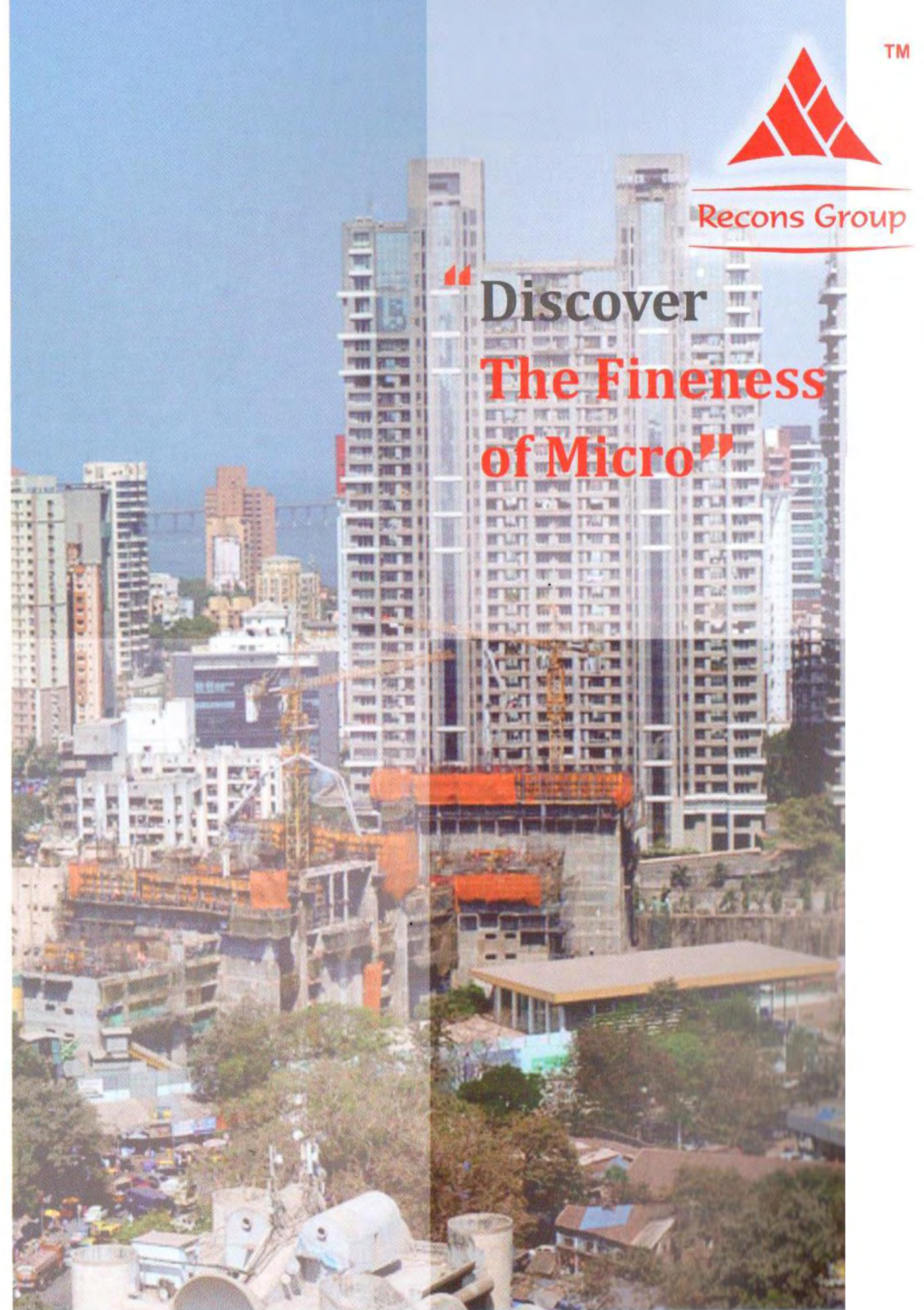




INNOVATION & STRENGTH

— SUPERFINE —

Superfine is a new generation supplementary cementitious material (SCM) with a built-in high tech content. In spite of its high fineness it does not increase water demand at the dosage range of 5 to 15 percent of normal OPC in general. In fact concrete slump is seen to be improved due to the dense packing of cementitious material, producing low void content. The use of **Superfine** results in hydrated cement matrix to comprise of very small pores. **Superfine** is a specially processed product based on high glass content with high reactivity obtained through the process of controlled granulation. The raw materials are composed primary of low calcium silicates. The processing with other select ingredients results in controlled particle size distribution (PDS). The computed blain value based on fine particles size, **Superfine** provides reduce water demand for a given workability, even up to 70% replacement level as per requirement of concrete performance. **Superfine** can also be used as a high range water reducer to improve compressive strength or as a super workability aid to improve flow. **Superfine** can be used as practical substitute for silica Fume as per the result obtained. If the advantages of **Superfine** are observed in the concrete mix design, the initial rate of strength development was found to be increased or similar as that of silica fume.



TM

Recons Group

“Discover
The Fineness
of Micro”

— SUPERFINE — TEST RESULT

Chemical Composition	% Wt. TYPICAL	TEST
CaO +MgO+SiO ₂ (MIN)	66.66	78.0
CaO +MgO/SiO ₂	≥ 1.0	1.27
Fe ₂ O ₃	1.8 - 2.2	0.56
So ₃ (MAX)	2.5	0.25
MgO(MAX)	14	8.17
Chloride(MAX)	0.10	0.01
Glasscontent(MIN)	67	94.0
Physical Charactristics		
Nature	Drypowder	
Fineness,Blainecm/gm(computed)	8000-10,000	NA
Specific Gravity,gm/cm ³	2.75-3.2	2.85
BulkDensity,kg/m ³	700-1100	1000
Particledistribution		
D50,u	5 to 7	5.0
D90,u	10 to12	10.6