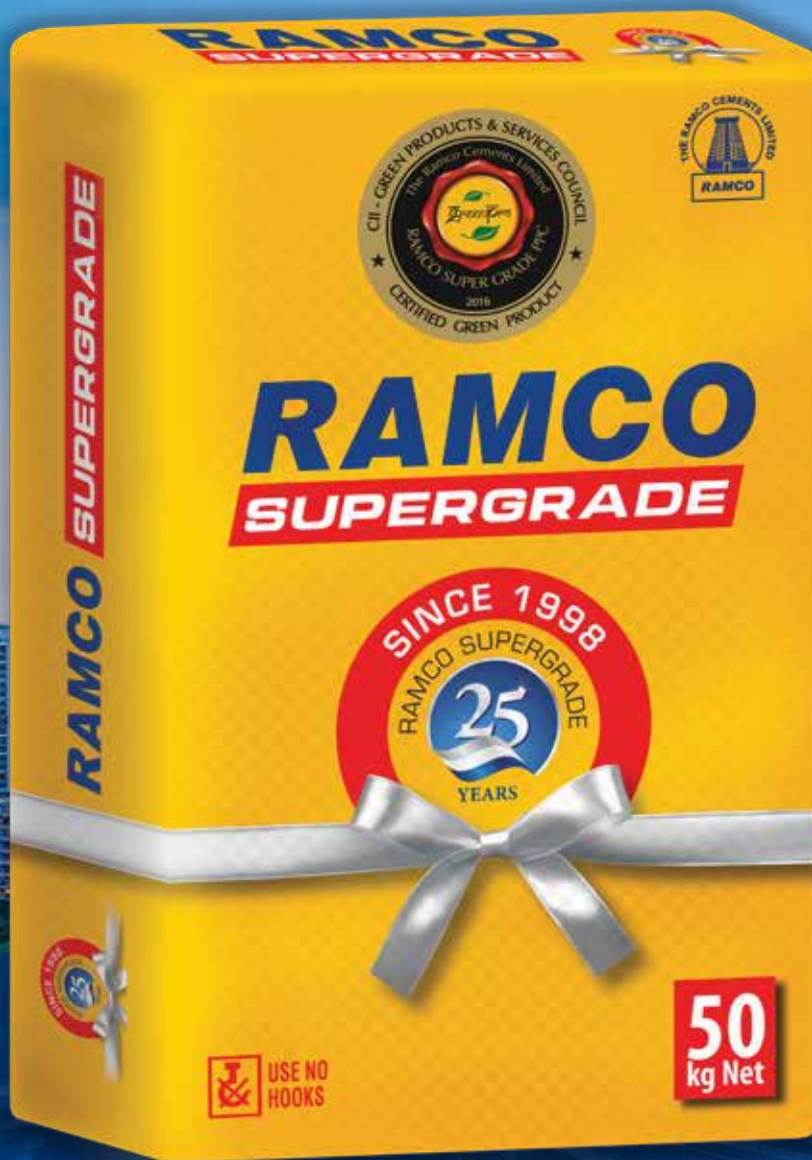


# SUPER CEMENT FOR SMART CITIES



*Engineered  
for Concrete*

## FEATURES & BENEFITS

- Reduced permeability and voids
- Reduced creep & cracks
- Increased compressive strength
- Resistance to steel corrosion
- Reduced expansion and heat of hydration
- Reduced micro cracking
- Resistance to chemical attacks
- Enhanced durability

## TECHNICAL SPECIFICATIONS

Physical Characteristics	Unit	Requirement as per IS 1489 Part1:2015	Ramco Super Grade Cement*
Fineness	m <sup>2</sup> /kg	300 (min)	340
Soundness			
Le Chatlier Method	mm	10 (max)	1.50
Autoclave Method	%	0.8 (max)	0.05
Setting Time			
Initial	minutes	30 (min)	100
Final	minutes	600 (max)	190
Compressive Strength			
3 Days	Mpa	16 (min)	23
7 Days	Mpa	22 (min)	33
28 Days	Mpa	33 (min)	50

\*Indicative prevailing values

### Rapid Chloride Penetration Test (RCPT) Results (Tested as per ASTM C 1202-19)

Description	M20 Grade Concrete RCPT (Coulombs)	
	28 days	180 days
OPC 53G	3349	2800
Ramco Super Grade (PPC)	1231	505

\*Lower the value, better the durability