

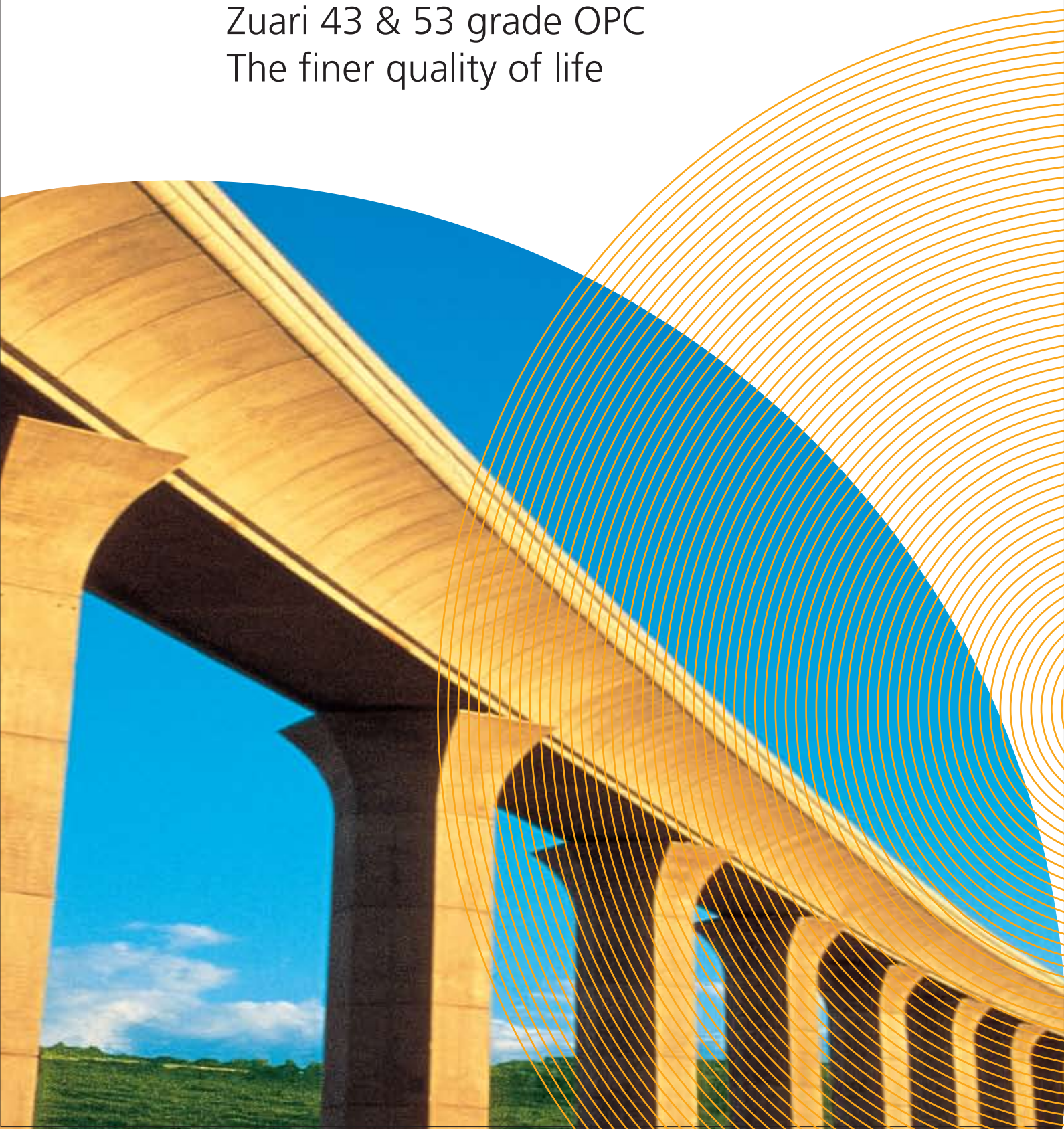


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# Zuari Cement

## Italcementi Group

Zuari 43 & 53 grade OPC  
The finer quality of life



**Zuari Cement** is part of the Italcementi group, the fifth largest cement producer in the world and the biggest in the Mediterranean region. With net sales over 5 billion Euro in 2009 and a capacity of 70 million tonne. Italcementi Group combines the expertise, know-how and culture of a number of companies from more than 22 countries in 4 continents. This includes an industrial network of 59 plants, 15 grinding centres, 5 terminals, 92 aggregates quarries and 373 concrete batching units. With its inherent strengths, Italcementi is set to give the building industry, cement that's truly international.

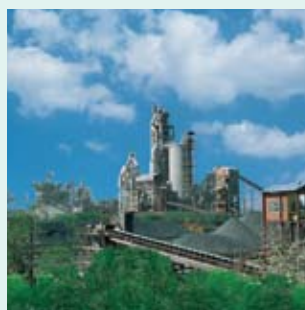
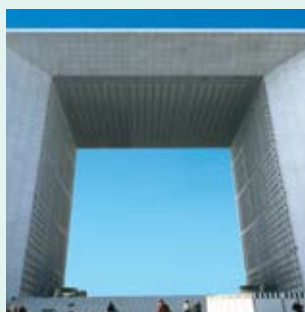
Italcementi believes in customer satisfaction through continuous quality improvement. This belief is reflected in the group's Quality Management System that complies with ISO 9001:2000 standards. This system covers all the processes, across all the group companies, to ensure that the end product delivered to customers is nothing short of world-class.

### Zuari's edge

The culture of quality that has always prevailed in Zuari Cement's manufacturing facilities is best exemplified in the process technology employed. Advanced technology methods are used to ensure that a high level of quality is attained and sustained right through the manufacturing process. Yet, these high standards are constantly improved upon by an experienced and dedicated R&D team to attain a performance oriented cement.

With these unique advantages, Zuari Cement comes to you in two grades - 43 Grade OPC and 53 Grade OPC. Zuari OPC is a high quality cement prepared from the finest raw material. Owing to optimum water demand, it contributes to a very low co-efficient of permeability of the concrete prepared. This improves the density of the concrete matrix and increases the durability of the concrete. Zuari OPC is a high performance cement far exceeding the codal requirement of BIS.

It is this very durability that translates into long - lasting residential and commercial constructions of a wide variety.



### Zuari 43 & 53 Grade Ordinary Portland Cement (OPC) - Strong cements for longlasting constructions

- Higher compressive strength
- Better soundness
- Lesser consumption of cement for M-20 grade concrete and above
- Faster deshuttering of form work
- Reduced construction time

### Quality Parameters

Test	ZUARI	IS	ZUARI	IS
Physical Requirement	OPC 43	8112-1989	OPC 53	12269:1987
	Grade		Grade	

Fineness				
Specific surface (m <sup>2</sup> /Kg)	280	>225	290	> 225

Soundness				
Le Chatelier Method (m.m.)	1.5	<10	1.0	< 10
Auto clave (%)	0.04	<0.8	0.03	< 0.8

Setting Time				
Initial (Minutes)	180	>30	160	>30
Final (Minutes)	260	<600	260	<600

Compressive Strength Mpa				
3 days	37	>23	39	> 27
7 days	45	>33	48	> 37
28 days	55	>43	60	> 53

Chemical Requirements				
Loss on ignition (%)	1.55	<5	1.3	< 4
Insoluble residue (%)	2.0	<3	1.0	< 3
Magnesium Oxide (%)	1.4	<6	1.4	< 6
Lime saturation factor	0.87	0.6-1.02	0.90	0.8-1.02
Alumina Iron Ratio	1.0	0.66-1.02	1.05	> 0.66
Sulphuric Anhydride (%)	1.9	<3.00	2	< 3.00
Alkalies (%)	0.6		0.52	—
Chlorides (%)	0.01	<0.1	0.01	< 0.1
C <sub>3</sub> A		5.5		6.0



**Zuari Cement**  
Italcementi Group

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