



## DESIGNER FLOORING



### JK WHITE CEMENT **CEM I** - APPLICATION

Our product complies to :



CEM I - 1922 - CPR - 0353  
CEM II - 1922 - CPR - 0417



## Introduction

*"Design is fluid. It's liquid. It moves like water and fills every space"*

Flooring is an essential feature for any building or for any construction outcome. Thus, it has to be more elegant and appealing to eyes. JK White Cement is now an integral part of today's buildings and aesthetics in providing solutions to the flooring industry. Our product JK White Cement CEM I is used in major flooring applications to provide more durability, longevity thus proving to be economical.



## Designer Floors with JK White Cement CEM I

**Mosaic Tiles:-** Mosaic Tiles are made from a combination of cement and aggregates. It has the strength of concrete and feel of silk. It beautifies floors and walls, indoors and outdoors in home and businesses.

JK White Cement provides high strength, durability and whiteness thus enriching the beauty of floors.



**Pavement blocks :-** Pavement Blocks/Pavers/Pavement Bricks are used to create a pavement or hard standing. Main benefit of using paver is that individual paver can later be lifted and replaced if required. Typical use of pavers is for driveways, pavements, patio, town centers, and more commonly in road surfacing. Concrete paving of blocks are made by mixing small stone hardcore, pigments, cement and sand. JK White Cement with its high strength and brilliant whiteness produces hard, tough and durable pavers with bright and long lasting colours.



**In-situ Terrazzo:-** In situ Terrazzo is a composite material, poured in place for floors. It consists of marble and other suitable chips with cement as binder. It is cured, ground and polished to a smooth surface. JK White Cement with high strength, high whiteness will produce tough, hard and smooth Terrazzo finishes.



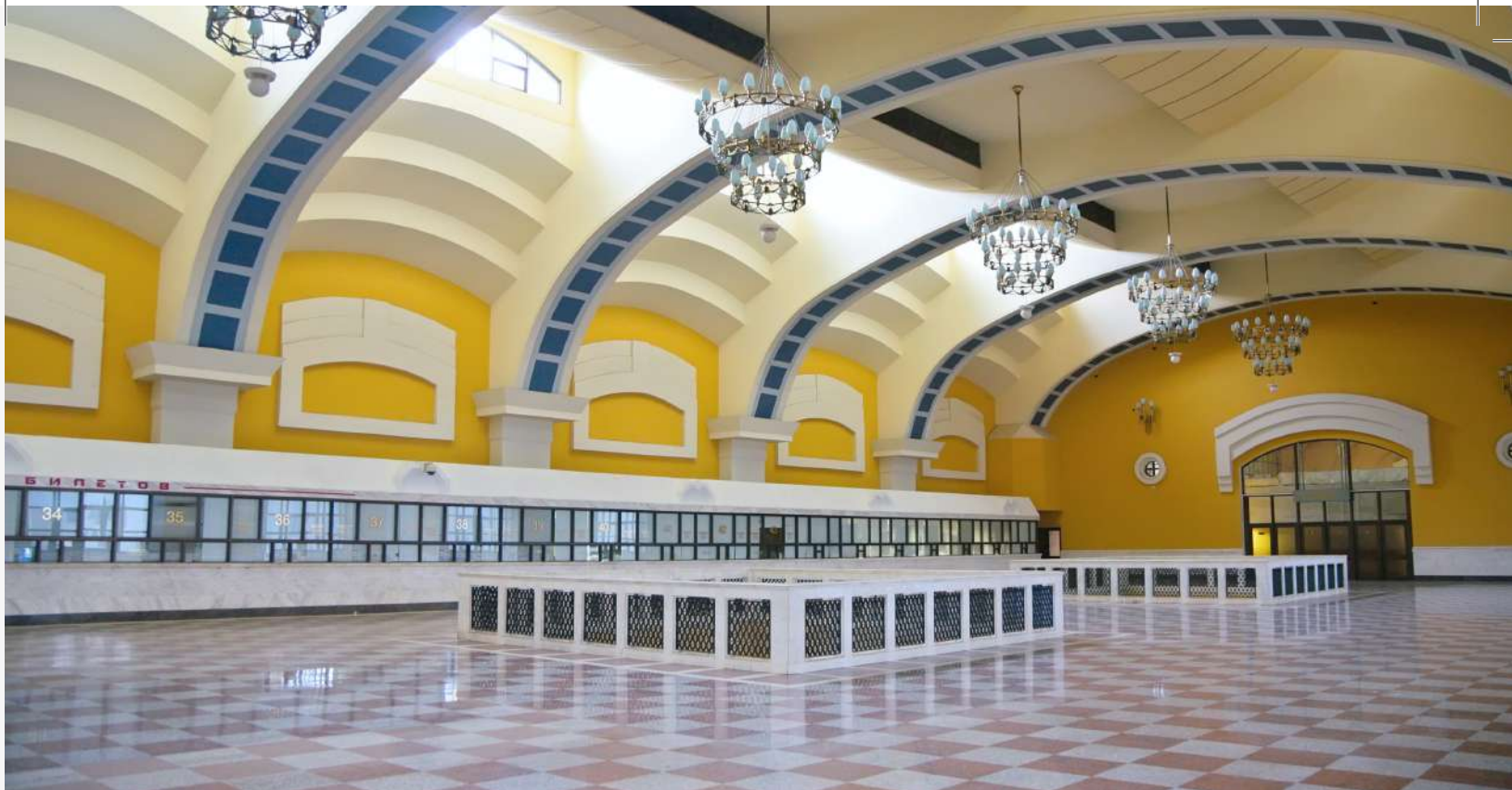
**Industrial Stones:-** These are heavy duty cement concrete tiles which are used where high loads are expected and where higher strength is required. These are used in petrol stations, dockland development, factories pedestrian schemes and urban renewal. JK White Cement with high strength and very high whiteness will produce tough, hard and durable Industrial Stones which will take high loads without failure.



Why you must use JK White Cement CEM I 52.5 N for these applications

- High early strength for faster demoulding
- Higher fineness will give smoother surfaces
- Higher whiteness will give exact desired colours
- Highest quality raw materials used in JK White Cement CEM I
- It is economical and more durable





### Technical Specifications for CEM I 52.5 N

Chemical Analysis		ASTM C150 Type 1 Requirement	Tentative Range	Typical Test Results	Chemical Analysis		EN 197-1 CEM 1 52.5 N Requirement	Tentative Range	Typical Test Results
I.R	%	Max. 0.75	0.17 - 0.20	0.18	I.R	%	Max. 5.0	0.17 - 0.20	0.18
MgO	%	Max. 6.0	0.80 - 0.95	0.93	MgO	%	Max. 5.0	0.80 - 0.95	0.93
SO <sub>3</sub>	%	Max. 3.5	3.30 - 3.40	3.33	SO <sub>3</sub>	%	Max. 4.0	3.30 - 3.40	3.33
NAa <sub>2</sub> O	%	Max. 0.6	0.35 - 0.45	0.37	NAa <sub>2</sub> O	%		0.35 - 0.45	0.37
Chloride	%	Max. 0.1	0.010 - 0.014	0.012	Chloride	%	Max. 0.1	0.010 - 0.014	0.012
L.O.I	%	Max. 3.0	1.7 - 2.0	1.72	L.O.I	%	Max. 5.0	1.7 - 2.0	1.72
LSF	%		92.0 - 93.0	92.41	LSF	%		92.0 - 93.0	92.41
C3S Tricalcium Silicate	%		53.0 - 55.0	54.36	C3S Tricalcium Silicate	%		53.0 - 55.0	54.36
C3A Tricalcium Aluminate	%		11.0 - 11.5	11.04	C2S Dicalcium Silicate	%		22.0 - 24.0	23.56
					C3A Tricalcium Aluminate	%		11.0 - 11.5	11.04
					C4AF Tetracalcium Aluminoferite	%		0.76 - 0.85	0.82
Physical Test Results					Physical Test Results				
Fineness	M2 / Kg	Min. 280	370 - 390	382	Fineness	M2 / Kg		370 - 390	382
(Air permeability)					(Air permeability)				
Soundness (Autoclave)	%	Max. 0.8	0.02 - 0.03	0.03	Soundness (Autoclave)	%	Max 10	0.5 - 1.0	0.50
Setting time (Vicat)	Min.				Setting time (Vicat) Min.				
Initial		Min. 45	115 - 135	120	Initial		Min. 45	120 - 150	130
Final		Max. 375	160 - 180	165	Final		Max. 375	165 - 185	175
Compressive Strengths					Compressive Strengths N/mm2				
3 days str.		Min. 1740	>3800	4046	2days str.		Min. 20	> 30	34.8
7 days str.		Min. 2760	>4500	4849	7 days str.			> 45	48.0
28 days str.		Min. 4060	>5500	5927	28 days str.		Min. 52.5	> 58	58.5
Color					Color				
Whiteness	%	Color Meter ZE 6000	> 91.0	91.10	Whiteness	%	Color Meter ZE 6000	> 91.0	91.10

### Technical Support

Further information and advice on this product and the full range of JK White Cement products can be obtained through putting your comments over [sales.fuj@jkcement.com](mailto:sales.fuj@jkcement.com)

### Note

The aforesaid information is based on our present state of knowledge and shall inform about our products and their application possibilities. Value and characteristics provided are typical and approximate size. It should not therefore be construed as guaranteeing specific properties of the product described or their suitability for a particular application. Subject to change without prior notice.

## Safety Precaution

Warning - Keep out of reach of children, avoid contact with eyes, skin and respiratory. Wear appropriate personal protection equipment like safety gloves, goggles, protection clothing and respiratory protection mask.

First aid -

**Eyes contact:** Rinse eyes thoroughly with water for atleast 15 minutes, including under lids to remove all particles. Seek medical attention for abrasions and burns.

**Skin contact :** Wash with cool water and apH neutral soap or a mild skin detergent. Seek medical attention for rash, burns, irritation, dermatitis and prolonged unprotected exposures to wet cement, cement mixtures or liquids from wet cement.

**Inhalation :** Move person to fresh air. Seek medical attention for discomfort or if coughing or other symptoms do not subside.

**Ingestion :** Do not induce vomiting. If conscious, have person drink plenty of water, medical attention, seek or contact poison control centers immediately.



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