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For Strong Foundation



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SSSDS PVT. LTD.

A Commitment to Quality

Orient Cement Limited is a company of the CK Birla Group, one of the foremost business houses in India, with a presence across diverse businesses in five continents. Orient Cement Limited has its production units at Devapur in Adilabad district of Andhra Pradesh and at Jalgaon in Maharashtra.

In its endeavour to deliver consistent and superior quality products, Orient Cement Limited employs a fine mix of sophisticated technology, test and monitoring facilities with advanced operating systems and state-of-the-art control systems. The practice of international standards has won Orient Cement Limited coveted certifications such as ISO 9001-2008, ISO 14001 from DNV, Norway and TPM from JIPM, Japan. The Laboratory of Devapur is also accredited by NABL.

BIRLA•A1 Premium Cement was launched as a corollary to the magnificent success of **BIRLA•A1 53 Grade Cement**. **BIRLA•A1 Premium Cement** has been well received in the market and is already well within the realms of the best known brands in the country. **BIRLA•A1 Premium Cement** is being sold in major parts of the Southern and Western regions of the country through a well established network of over 80 offices and an excellent strength of evenly distributed Stockists numbering over 2,000. The company's distribution is effectively linked through Rail and Road to reach every nook and corner of the market.

BIRLA A1 PREMIUM CEMENT

Suitable for all types of constructions like :

- Hydro Power Stations • Dams • Marine Structures & Jetties • Heavy Machinery Foundations
- Underground Structures • Pipeline Works • Multi Storied Buildings • Concrete Roads and Bridges • All Types of RCC Works

SUPERIOR STRENGTH

BIRLA•A1 Premium Cement is extremely strong with better attributes than those prescribed by BIS 53 grade cement and is being used wherever ordinary Portland cement is used. As a result of continuous conversion of liberated lime Ca(OH)_2 into the strong C-S-H gel, its strength increases with the passage of time.



OPTIMUM FINENESS

Due to the usage of uniform sized processed fly ash and high tech state-of-the-art production facilities in the unit, **BIRLA•A1 Premium Cement** demonstrates optimum fineness due to usage of uniform sized fly-ash and high-tech state-of-the-art production facilities. Structures constructed with **BIRLA•A1 Premium Cement** will be having excellent durability characteristics.

LOWER HEAT OF HYDRATION

BIRLA•A1 Premium Cement contains less C_3A leading to low evolution of heat during hydration. This prevents development of cracks during hydration process. **BIRLA•A1 Premium Cement** is therefore highly recommended for mass concreting structures such as dams, hydro-power stations, heavy machinery foundations etc., apart from roofing, foundations and other regular constructions.

CORROSION RESISTANT

Concrete made with **BIRLA•A1 Premium Cement** is impermeable to chemicals and water. As water, chlorides and other chemicals are effectively barred from having contact with the reinforcement, concrete made with **BIRLA•A1 Premium Cement** becomes corrosion resistant.

BETTER WORKABILITY

Superior quality and control processed spherical shaped fly ash & uniform particle size distribution gives increased workability even at lower Water-Cement ratio. This results in more strength of concrete and reduces bleeding during concreting.

LOWER PERMEABILITY

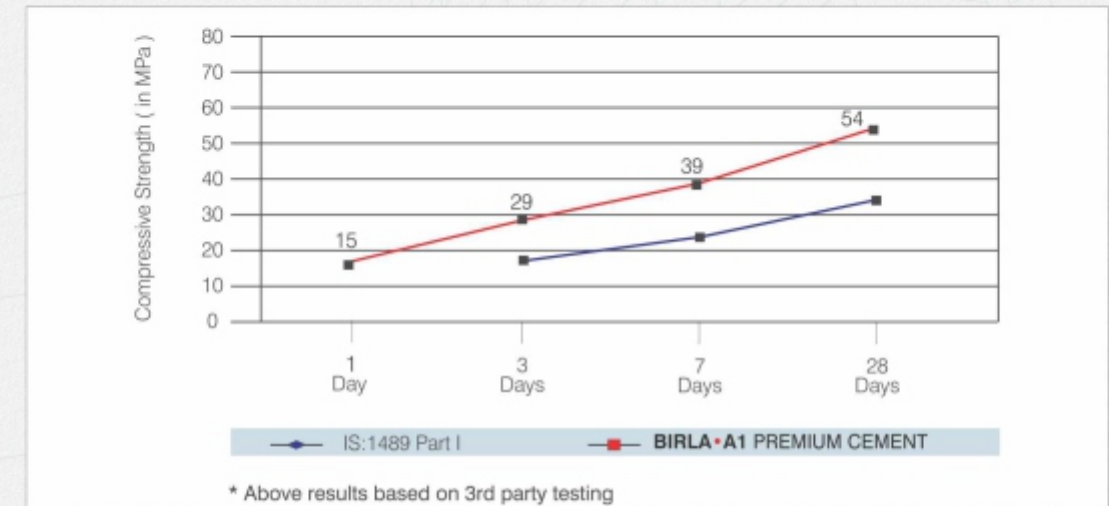
Due to reduced Water-Cement ratio, the concrete becomes impermeable and has a better workability. This makes the concrete more resistant to chemical attacks.

SULPHATE RESISTANT

The Ca(OH)_2 produced during hydration is highly susceptible to chemical attacks. Perfectly processed fly ash with reactive silica, reacts with Ca(OH)_2 and converts into C-S-H gel. Thus concrete made with **BIRLA•A1 Premium Cement** has better sulphate resistant quality.

BIRLA•A1 PREMIUM CEMENT AT A GLANCE

PHYSICAL PARAMETERS		Specification IS:1489(Part-1)-1991	Birla A1 Premium Cement
1	Setting time		Range
	Initial	30 minutes Min.	130-155
	Final	600 minutes Max.	190-205
2	Fineness (Blaine Method)	300 m ² / kg Min.	330-350
3	Soundness		
	Le-Chatelier expansion	10 mm Max.	0.5 (Avg.)
	Autoclave expansion	0.8% Max.	0.02 (Avg.)
4	Compressive Strength at		
	3 days	16 Mpa Min.	29 ± 2 (Avg.)
	7 days	22 Mpa Min.	40 ± 2 (Avg.)
	28 days	33 Mpa Min.	55 ± 2 (Avg.)
5	Drying Shrinkage	0.15% Max	0.01% (Avg.)
CHEMICAL PARAMETERS			
1	Loss on ignition (LOI)	5.0% by mass Max.	1.62 (Avg.)
2	Insoluble Residue (IR)	$\frac{X+4(100-X)\% \text{ by mass Max.}}{100}$	26.60 (Avg.)
		Where, X = Declared % of pozzolana	
3	Magnesia (MgO)	6.0 % by mass Max.	1.23 (Avg.)
4	Sulphuric anhydride (SO₃)	3.0 % by mass Max.	1.86 (Avg.)
5	Chloride (Cl)	0.05% by mass Max.	0.015% (Avg.)



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