



**KAMAL
CEMENT**

SINCE 1944

**Varsho ni Salamati
Kamal ni Mazbooti**

**PORTLAND
POZZOLANA CEMENT**
(FLY ASH BASED)

KAMAL CEMENT



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CEMENT**

Varsho ni Salamati,
Kamal ni Mazbooti

MANUFACTURED AT:
SHREE DIGVIJAY CEMENT CO. LTD.
D/GVIJAYGRAM, DIST: JAMNAGAR-361140

www.digvijaycement.com

7 DECADES OF KAMAL CEMENT

Kamal Cement is a pre-independence brand envisaged by the great Sardar Patel to build an Independent India for the days to come. Under the leadership of Maharaja Shri Digvijay Sinhji, Kamal Cement was a result of both Patriotism and Entrepreneurship. Kamal Cement standing strong since past seven decades carves out the long proud legacy of building the nation by manufacturing superior quality cement, thereby making it one of the most experienced cement producing companies in India. The competitive edge is exhibited through constant technological upgradation and its commitment to give a perfect quality cement that is quality focused. The IMS (ISO 9001, 14001 & 18001) certified Industry accredited with International Standard Quality Control Systems meets the most advanced methods of Consistent Quality Cement production. Fully automatic and dynamically monitored production process with latest online expert analysers ensuring consistency in quality of every finest grain of cement, making Kamal Cement the most preferred cement brand in India.

KAMAL CEMENT

PORTLAND POZZOLANA CEMENT (PPC GRADE)

Kamal PPC Cement is a top quality Portland Pozzolana Cement manufactured with regards to IS 1489 (Part 1). This revolutionary product has top quality Pozzolana particles to give higher reactivity.

The High Reactive Silica (HRS) in the cement helps to give most optimized workability with low heat of Hydration & Low Water - Cement Ratio to guarantee denser concrete for durability, strength and longest service life to your dream constructions.

Kamal PPC Cement's High Reactive Pozzolana improves workability retention that makes the Concrete denser & durable, ensuring ever-lasting protection to your dream structures.

SHREE DIGVIJAY CEMENT CO. LTD. produced Kamal PPC Cement is recommended for all major civil constructions and can be used in concretes, mortars, overhead and underwater constructions.



QUALITY

At SHREE DIGVIJAY CEMENT CO. LTD., we produce Kamal PPC Cement using the best of Pozzolana which is inter-grinded with top quality Clinker and Gypsum. All these raw materials are carefully selected to produce a quality cement. Strict quality control throughout each stage of manufacturing process ensuring the best quality & consistency till the last particle of our product.

STRENGTH

Continuous increasing strength with best-in-class performance in terms of quality and durability is achieved with Kamal Cement.

KEY FEATURES

✓ **Denser Concrete** – Kamal Cement has the unique property of having best quality micro active Pozzolana which helps to reduce friction and make mortar more workable at lower Water-Cement ratio.

✓ **Crack Resistant** – Kamal Cement has negligible Magnesia and low heat of Hydration making the concrete denser and being Super Crack Resistant.

✓ **Corrosion Resistant** – Kamal Cement has negligible Chlorides and Alkalis thereby providing your dream constructions with Super Corrosion Resistance.

✓ **Economy with Quality and Durability**– Kamal Cement has less Water-Cement ratio and higher fineness of Cement which gives more volume of cement and gives more inter-binding ability to mortar aggregates.

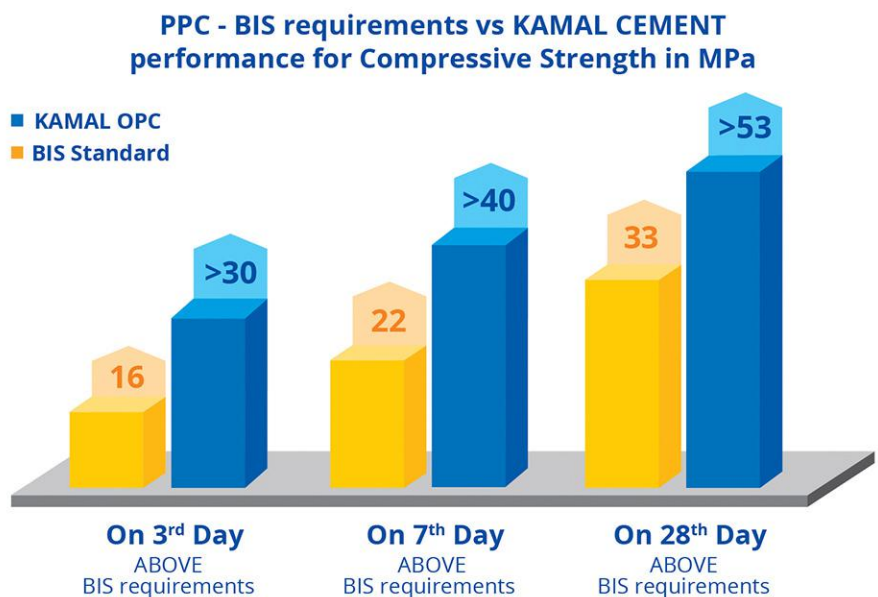
Physical Properties		
Property	Requirements as per IS1489(Part:1) : 2015	Kamal Cement
Fineness (m ² /kg)	300 Minimum	330 Min.
Setting Time (Minutes)		
Initial	30 Min.	130±30
Final	600 Max.	220±30
Soundness		
Le Chatellier's expansion (mm)	10 Max.	2.0 Max.
Auto Clave Expansion (%)	0.8 Max.	0.15 Max.
Compressive Strength (MPa)		
On 3 rd Day	16 Minimum	30±3
On 7 th Day	22 Minimum	40±3
On 28 th Day	33 Minimum	53±3

APPLICATIONS

Portland Pozzolana Cement (CemII) is a superior cement for wide range of applications. The key applications are in the ready-mix concrete, underwater and sub-sea constructions.

Kamal PPC Cement is suitable to use with wide range of additives and admixtures to extend the properties and uses of concretes. The most ideal applications are in :

- All RCC & PCC works.
- Mass concrete works like dams, bridges, foundations etc.
- Overheads & underground water tanks, water retaining structures etc.
- Masonry works like brickworks, blockworks, etc
- Plastering, pointing, masonry etc.
- Asbestos cement products.





KAMAL Cement
Typical Chemical & Physical Properties

PORTLAND POZZOLANA CEMENT

Portland Pozzolana Cement
Requirements as per
IS:1489 (Part I)

Kamal
Cement
Performance

Maximum Advantages For Construction

PHYSICAL REQUIREMENTS

FINENESS

Specific Surface (m²/kg)

more than 300 m²/kg

364
m²/kg

Faster Strength Gaining

SOUNDNESS

LE-Chatelier Expn. (mm)

less than 10 mm

1
mm

Better Durability

Autoclave Expn. (%)

less than 0.80%

0.15%

Better Durability

SETTING TIME (Minutes)

Initial

more than 30 minutes

135
mins

Gives more time to use mortar and concrete

Final

less than 600 minutes

195
mins

Early deshuttering advantages

CHEMICAL REQUIREMENTS

Loss on Ignition (LOI). %by mass

less than 5.0%

1.28%

Fresh cement with intact engineering properties

Magnesia (MgO). %v by mass

less than 6.0%

1.36%

Prevents delayed cracks

Sulphur as SO₃ % by mass

less than <3.5%

2.5%

Optimum setting of paste

Insoluble Ratio

X+ 40(100-X)/100Max.

21.28%

Assured quality of Clinker for quality cement

Chloride % by Mass

less than 0.05 % (for cement
used in special structures like
pre-stressed concrete)

0.027%

Extended Durability

COMPRESSIVE STRENGTH (MPa)

On 3rd day

more than 16 MPa

22.6
MPa

Higher Initial Strength

On 7th day

more than 22 MPa

34.3
MPa

Higher Initial Strength

On 28th day

more than 33 MPa

58.4
MPa

Higher Initial Strength

Drying shrinkage (%)

less than 0.15%

0.02%

Crack resistance and better durability

Fly Ash used as Pozzolana, % of PPC

Minimum 15% but
less than 35%

30%

Better workability & reduces cement consumption for
Design Mix of Concrete (Higher compressive strength
using lesser quantity of cement)



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