

BORN OF STEEL

BUILT TO ENDURE



Made with years of trust,
PSC Premium Slag Cement.

SINCE 1993TM
THE ORIGINAL
FORMULA

-  Excellent Strength and Durability
-  Superior Finish
-  Light Colour
-  Moisture Resistant Packaging



STEEL JAISA MAZBOOT NIRMAN

THE STRENGTH OF STEEL NOW IN PSC CEMENT

Known for strength, shine and smooth finish, PSC is high-performance cement made with slag produced from the Jojobera plant of a leading global steel manufacturer. This blended Portland Slag Cement is extremely versatile and suitable for all kinds of construction, mass concreting and masonry applications.



UNIFORMLY DISTRIBUTED
GRAIN SIZE INDUCES GREATER
'INTERLOCKING EFFECT'
AMONG THE CEMENT PARTICLES



OPTIMUM SETTING TIME MATCHING
WITH INDIAN CONDITIONS



LESS WATER NEEDED
LEADING TO HIGHER STRENGTH OF
THE SET MASS



CONTROLS PERMEABILITY
AND ENHANCES DURABILITY

KEY PRODUCT FEATURES

- ❖ High-performance blended cement far exceeding the requirement of 455- 1989. In terms of physical properties it is comparable to even 53 Grade OPC (IS: 269-2015).
- ❖ Produced by blending pulverized high-grade clinker with the most consistent cast house granulated slag at 1450° C and more than 93% glass content, it provides much higher compressive strength than 53 grade OPC at 28 days and later.
- ❖ It has low heat of hydration and is suitable for mass concreting and concrete cast under hot weather conditions.
- ❖ Provides low coefficient of permeability and high durability, due to adoption of separate grinding process for clinker and slag, a unique feature of PSC cement.
- ❖ Extremely low values of expansion through the Le-Chatelier test and Autoclave tests reflect its high quality.
- ❖ Its chemical properties, achieved through continuous indigenous researches, make it ideal for constructions in contact with salinity, moisture and harmful chemical agents.
- ❖ Its perfect blend exhibits least lime leeching and makes the structures most resistant to carbonation attack.

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How does the Original Formula attribute to high-performance concrete?

High compressive strength through two phases of the hydration process

- ✔ Primary reaction: Imparts strength in early phase
- ✔ Secondary reaction: Adds further strength and complete conversion of Ca(OH)_2

Higher durability

- ✔ **The Alkali Content in PSC is within 0.6%:** This makes it ideal for places where local coarse or fine aggregate contains high-reactive silica
- ✔ **High Impermeability due to Secondary Reaction:** Soluble Ca(OH)_2 crystals generated during primary reaction combine with slag during secondary reaction
- ✔ **Optimum Fineness and Particle Size Distribution of PSC** – Achieved through ‘Separate Grinding’, produces denser concrete which further improves impermeability

What are the benefits of the Original Formula?

- ✔ Negligible Alkali – Aggregate Reaction (AAR)
- ✔ Higher Compressive Strength 48 – 50 MPa
- ✔ Best result for a particular cement consumption/sand – cement ratio
- ✔ Perfect blend: Achieved through state-of-the-art grinding technology

☎ TOLL FREE 1800 345 6666 📞 WhatsApp ‘NUVOCO’ to 98300 17272

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