

CEM II B-LL 32.5N

PORTLAND COMPOSITE
CEMENT



SABS & NSI APPROVED

Ohorongo's **CEM II B-LL 32.5N** has been designed to be environmental friendly, affordable and used in a versatile range of applications, ranging from:

- *Adhesive plaster with paint binding properties*
- *Mortar for stable bricklaying*
- *Road and Soil stabilization with low plasticity*
- *Moderate range of concrete strength achievable*
- *Residential use*



OHORONGO
cement



CEM II B-LL 32.5N is produced at Ohorongo Cement's state-of-the-art manufacturing facility with carefully selected premium raw ingredients for consistent strength, workability and durability to give excellent results every time.

Ohorongo **CEM II B-LL 32.5N** users are assured of a high quality and reliable cement product, which enables users to produce cost effective concrete and concrete products.

Ohorongo's cement products are **proudly 100% Namibian**.

FEATURES, APPLICATIONS AND BENEFITS

Ohorongo **CEM II B-LL 32.5N** offers a versatile range of extra benefits for different applications of concrete and mortar work, making it an ideal choice for residential use, as well as small contractors.

Freshly mixed concrete

- Improved water retention and less bleeding for better surface finish
- Low heat of hydration

Concrete in the hardened state

- Reduced expansion
- Excellent 7-day strength development
- Allows earlier stripping times
- Adhesive due to coarse microscopic structure
- Low carbon footprint due to the use of mineral components
- Denser concrete which leads to low permeability
- Higher long-term strength and durability

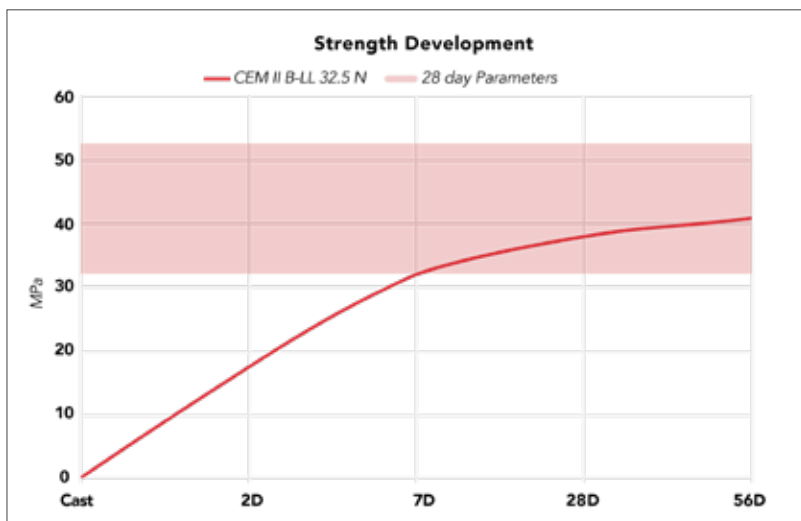




COMPOSITION

Ohorongo **CEM II B-LL 32.5N** is a PORTLAND COMPOSITE CEMENT comprising of high quality clinker blended with gypsum and high grade limestone.

STRENGTH SPECIFICATION



QUALITY

Ohorongo **CEM II B-LL 32.5N** complies with the physical and chemical requirements of NAMS 197 & SANS 50197 for a Class 32.5N cement.

The production process is strictly controlled by the Quality Assurance Department, to ensure consistent quality.

ENVIRONMENT

Ohorongo Cement is ISO 14001:2015 certified, confirming its commitment towards sustainability and caring for the environment.

Ohorongo has replaced over 40% of its fossil fuel with locally sourced environmentally friendly fuels such as wood chips and charcoal fines to reduce the carbon footprint of its production process.

Water consumption is minimised by using air for clinker cooling. Advanced filtration systems are installed across the entire process to limit dust emissions.

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RECOMMENDED MIX PROPORTIONS BY VOLUME USING CEM II B-LL 32.5N

OHORONGO CEMENT		RIVER/ COARSE SAND	STONE	MIXTURE QUANTITY
High Strength High strength concrete, slabs, beams, columns, driveways and carports	1x 	1x 	1x 	0.10m ³ 
Medium Strength Concrete floors, patios, surface beds, curbs and foundations	1x 	1.5x 	1.5x 	0.14m ³ 
Low Strength Concrete footings, aprons and footpaths	1x 	2.0x 	2.0x 	0.18m ³ 
Exterior Mortar Mortar & Plaster- exposed to dampness (Exterior walls) Prerequisite - good quality sand	1x 	2.0x 	— 	0.11m ³ 
Interior Mortar Mortar & Plaster - not exposed to dampness (Interior walls) Prerequisite - good quality sand	1x 	3.0x 	— 	0.14m ³ 

OTHER IMPORTANT FACTORS

AGGREGATE

Aggregate have a significant influence on strength, quality and durability of concrete, mortar and plaster. We recommend using aggregates from reputable suppliers.

SAND

The sand used should not contain organic material (dung, roots, leaves), nor too much fines / clay, which may lead to loss of strength or excessive water demand.

WATER

Quality of water is important!

Use clean drinkable water to achieve a workable concrete.

The less water in the mixture, the stronger the concrete, mortar or plaster.

CURING

After the concrete, mortar and plaster have hardened, keep them moist by spraying with water and covering with light coloured plastic sheeting to prevent evaporation for up to 7 days.

STORAGE

Ohorongo Cement is distributed in 50 kg bags, 2 ton bags and bulk tankers. Bulk storage silos should be dry and vapor tight. Cement bags should be protected from moisture and kept dry, preferably off ground by means of pallets or timber, preventing moisture contact. Bags should be stored away from direct sunlight, or should be covered by a roof or sheeting. Stacking should be kept to a maximum of two pallets high to avoid compaction of cement bags at the bottom.

HANDLING AND SAFETY

Refer to **Ohorongo Cement** Safety Data Sheet, obtainable from **Ohorongo Cement**.



TECHNICAL SUPPORT

Ohorongo Cement offers technical support from its comprehensively equipped chemical, cement, and concrete laboratories. Assistance with cement- as well as concrete aspects, including advice on mix design is available from our qualified technical staff.

Cement Plant

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PRICE

Please contact the Ohorongo Cement Sales Office for price enquiries. Contact details provided below.

CONTACT

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The information given in this publication is based on current knowledge and experience. It gives a general indication of basic suitability, but must be adapted by the user for the particular application by means of tests and trials.

The respective applicable laws, standards and directives and the general recognized civil engineering regulations must be observed. The right to make changes in the interests of product and application development is reserved.

Our current Terms and Conditions of Sale and Delivery shall apply for all business transactions.



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BOS EN:197-1:2011



NAMS/EN 197-1



SANS 50197-1
EN 197-1

**PRODUCED IN NAMIBIA TO
WORLD - CLASS STANDARDS**