

# HOW TOUGH IS YOUR BUILDING?



BRICK LAYING



PLASTERING



CONSTRUCTION



**TOUGH**  
\*\*\*\*\*  
**TESTED**

**INFRABUILD 32.5N** is a fit for application cement, which include general building, plastering, brick and block manufacturing, reinforced concrete and road stabilisation.

CEM V/A Composite Portland Cement meets the requirements of SANS 50197, blended with quality raw materials for solid, long-lasting results.

**INFRABUILD 32.5N** can produce concrete from 10Mpa to 25Mpa when mixed in the correct proportion and can be used in a wide range of applications.

Higher strength can be achieved by consulting a certified lab for the correct mix proportions.

**INFRABUILD 32.5N** can be used to produce mortar from 15Mpa suitable for all building applications.



## ★ TIPS TO GUIDE YOU ★



### WATER

Use clean, drinkable water. Gradually add water until the mix becomes workable. Too much water will reduce the strength of your mix.



### SAND

Use uncontaminated, high grade, quality plaster or river sand. (SANS 1083:2014)



### STONE

Use the correct size, high grade, uncontaminated, quality aggregate fit for your application. (SANS 1083:2014)

**STORAGE AND PROTECTION:** Keep the cement in a dry place. Protect bags from any moisture. Place cement on a raised wooden platform or plastic sheeting to prevent rising damp. Cement, if stored correctly, has a shelf-life of approx. 3 months. Cement is a hazardous product and protective gear such as dust masks, safety goggles and gloves must be used when handling.

# ★ BEST WAY TO MIX ★

1. Always use a **suitable container** or scale to measure all materials. The same container should be used for component materials.
2. Always mix until the **colour and consistency is uniform**.
3. When using a concrete mixer **first load the stone, then the cement, then the sand. Slowly add the water** until the required workability is achieved.
4. When mixing by hand, **use a hard clean surface on which to do the mixing**. First **measure** out the sand then add the cement. **Add water slowly and mix thoroughly** until you achieve a workable paste. For concrete, the stone can be added prior to the water.
5. **Mix small batches** that can be used within 1 hour.
6. See recommended mix for proportions.

## CURING

The curing process prevents moisture loss from the concrete, which will cause cracking in the approx. 3-7 day period. The cement must be kept damp after application to gain strength. The loss of moisture is best prevented by spraying the concrete with water and covering it with plastic sheeting. Loss of moisture will affect strength gain.



# ★ CONCRETE MIXES ★

<p><b>APPLICATION</b></p> <p>LOW STRENGTH CONCRETE FOOTINGS, ETC ±15MPA</p>	<p><b>CEMENT</b></p> <p>2 x </p>	<p><b>SAND</b></p> <p>3½ x </p>	<p><b>STONE</b></p> <p>3½ x </p>
<p><b>APPLICATION</b></p> <p>MEDIUM STRENGTH CONCRETE FLOORS, FOOTPATHS FOUNDATIONS, ETC ±20MPA</p>	<p><b>CEMENT</b></p> <p>2 x </p>	<p><b>SAND</b></p> <p>2½ x </p>	<p><b>STONE</b></p> <p>2½ x </p>
<p><b>APPLICATION</b></p> <p>HIGH STRENGTH REINFORCED CONCRETE ±25MPA</p>	<p><b>CEMENT</b></p> <p>2 x </p>	<p><b>SAND</b></p> <p>2 x </p>	<p><b>STONE</b></p> <p>2 x </p>

# ★ MASONRY CEMENT ★

<p><b>APPLICATION</b></p> <p>MORTAR AND PLASTER Suitable for laying bricks and building blocks</p>	<p><b>CEMENT</b></p> <p>2 x </p>	<p><b>SAND</b></p> <p>6 x </p>	<p><b>STONE</b></p> <p>—</p>
<p><b>APPLICATION</b></p> <p>BRICK AND BLOCK MAKING</p>	<p><b>CEMENT</b></p> <p>2 x </p>	<p><b>SAND</b></p> <p>8 x </p>	<p><b>STONE</b></p> <p>—</p>



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