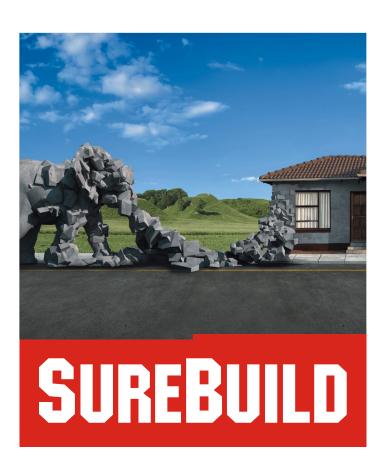
15% MORE VALUE FOR AN AFFORDABLE HOUSE





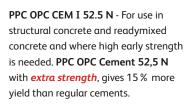


PPC Cement Yields 15% More For You

When it comes to building, it is important to use high quality building materials to ensure your project will last a lifetime. To this end, the **PPC Innovation Hub** has developed a new product range with advanced technology to give you extra strength that yields 15 % more. In this brochure, we show you how the new **PPC Surebuild Cement 42,5 N** gives you more for less.

PPC Cement Products

PPC SureBuild CEM II 42.5 N General purpose cement for building
and civil engineering work. PPC
Surebuild Cement 42,5 N with extra
strength, gives you 15 % more
concrete than regular 32,5 general
purpose cements.





The new PPC Surebuild Cement 42,5 N with extra strength

The new PPC Surebuild Cement 42,5 N with extra strength yields 15% more concrete. The calculations show a typical saving on cement that you can achieve with the new PPC Surebuild Cement 42,5 N. By using less PPC Surebuild Cement 42,5 N in your project, you can achieve a significant saving or take your vision further by adding more to your house. The calculations compare the new PPC Surebuild Cement 42,5 N (with extra strength) with the old PPC Surebuild Cement 32,5 R.



Floor area = $7 \times 7.14 \text{m} = 50 \text{m}^2$

Windows and doors not subtracted.

| | L | W | m² |
|--------------------|------|---|--------------------|
| m² of house | 7.14 | 7 | 50.0 |
| External walls | | | 70.7m ² |
| Internal walls | | | 35.4m² |
| Foundation | | | 4.7m ² |
| Floor Slabs ground | | | 5.0m ³ |

15% MORE VALUE FOR AN AFFORDABLE HOUSE



| | | Number of Bags Per Use | | Per Use |
|--------------------|----------------------|------------------------|-----|----------|
| Structure | Materials Size | Old 💮 | New | % Saving |
| Walls | 9750 (No. of Bricks) | 91 | 70 | 23 % |
| Plaster | 212m² | | | |
| Plaster | 21 Bags | | | |
| Brick Mortar | 29 Bags | | | |
| Concrete footings | 4.7m³ | 27 | 23 | 14% |
| Concrete floors | 5.0m³ | 38 | 33 | 13% |
| Total Number of Ba | igs for 50m² house* | 156 | 126 | 19% |

Windows and doors not subtracted.

*Mortar and plaster is prescribed by the NHBRC and therefore is not included in the calculations. Due to the extra (increased) strength of the new Surebuild the 1 part to 6 parts mortar will be stronger.

Concrete - Comparative Mixes 32,5 R vs 42,5 N

PPC Surebuild Cement 42,5 N with extra strength yields 15 % more concrete than regular 32,5 general purpose cements - here is how:

| Low Strength | | | | Yield | Cement Bags/m³ |
|--|---------------------|---|--|---------------------------|----------------------------|
| Old (32,5 R) New (42,5 N) | Cement Bags 2 x | Sand 3.5 x | Stone 3.5 x | 0.35 | 5.78 4.95 |
| Difference | 0 0 | | | ~15% more | ~15 % less |
| Medium Stre | ngth | | | Yield | Cement Bags/m³ |
| Old (32,5 R) New (42,5 N) | Cement Bags 2x 2x 0 | 3 x 🔭 | Stone 2.5 x 3 x | 0.25 0.28 | 8.00 6.94 |
| High Strengtl | | 0.5 % | 0.5 % | Yield | Cement Bags/m³ |
| Old (32,5 R) New (42,5 N) Difference | Cement Bags 2x 2x 0 | Sand 2 x 2.5 x 2.5 x 3.5 | Stone 2 x 2.5 x 2.5 x 3.5 x 3. | 0.21 0.25 ~15% more | 9.43 8.00 ~15 % less |

Bricks - Comparative Mixes 32,5 R vs 42,5 N

PPC Surebuild Cement 42,5 N with extra strength yields at least 20 % more bricks than regular 32,5 general purpose cements - here is how:

| Mix 1 | Cement Bags | Sand | Yield | Cement Bags/m³ | Stock Bricks per mix (190x90x90)mm |
|-----------------------------------|----------------|-------------|--------------|-------------------|---------------------------------------|
| Old (32,5 R) New (42,5 N) | 2 x 2 x | 6 x 7 8 x 7 | 0.31 0.40 | 6½ 5 | 200 257 |
| Difference | 0 | 2 x 🔭 | ~28 % more | ~28% less | ~28 % more |
| | | | | | |
| Mix 2 | Cement Bags | Sand | Yield | Cement Bags/m³ | Stock Bricks per mix (190x90x90)mm |
| Mix 2 Old (32,5 R) New (42,5 N) | | 8 x 10 x | 0.40 0.48 | | |

KEY PI

OLD PPC Surebuild Cement 32,5 R 0

NEW
PPC Surebuild Cement
42,5 N





Visit our website at: http://www.ppc.co.za

For more advice on cement please ask your PPC Cement stockist or call the PPC toll-free help line 0800 023 470 (SA only).

While all information in this brochure is supplied in good faith, no responsibility can be accepted by PPC or the stockist for claims arising from its use.