

# 15% MORE VALUE FOR AN AFFORDABLE HOUSE



**PPC**  
**CEMENT**



## 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.

**PPC OPC CEM I 52.5 N** - For use in structural concrete and readymixed concrete and where high early strength is needed. **PPC OPC Cement 52,5 N with extra strength**, gives 15% more yield than regular 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	m <sup>2</sup>
m <sup>2</sup> of house	7.14	7	50.0
External walls			70.7m <sup>2</sup>
Internal walls			35.4m <sup>2</sup>
Foundation			4.7m <sup>2</sup>
Floor Slabs ground			5.0m <sup>3</sup>

**SUREBUILD**

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Structure	Materials Size	Number of Bags Per Use		
		Old 	New 	% Saving
Walls	9750 (No. of Bricks)	91	70	23%
Plaster	212m <sup>2</sup>			
Plaster	21 Bags			
Brick Mortar	29 Bags			
Concrete footings	4.7m <sup>3</sup>	27	23	14%
Concrete floors	5.0m <sup>3</sup>	38	33	13%
Total Number of Bags for 50m <sup>2</sup> 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/m <sup>3</sup>
	Cement Bags	Sand	Stone		
Old (32,5 R)	2 x 	3.5 x 	3.5 x 	0.35	5.78
New (42,5 N)	2 x 	4 x 	4 x 	0.40	4.95
Difference	0	0.5 x 	0.5 x 	~15% more	~15% less
Medium Strength				Yield	Cement Bags/m <sup>3</sup>
	Cement Bags	Sand	Stone		
Old (32,5 R)	2 x 	2.5 x 	2.5 x 	0.25	8.00
New (42,5 N)	2 x 	3 x 	3 x 	0.28	6.94
Difference	0	0.5 x 	0.5 x 	~15% more	~15% less
High Strength				Yield	Cement Bags/m <sup>3</sup>
	Cement Bags	Sand	Stone		
Old (32,5 R)	2 x 	2 x 	2 x 	0.21	9.43
New (42,5 N)	2 x 	2.5 x 	2.5 x 	0.25	8.00
Difference	0	0.5 x 	0.5 x 	~15% more	~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/m <sup>3</sup>	Stock Bricks per mix (190x90x90)mm
Old (32,5 R)	2 x 	6 x 	0.31	6½	200
New (42,5 N)	2 x 	8 x 	0.40	5	257
Difference	0	2 x 	~28% more	~28% less	~28% more
Mix 2	Cement Bags	Sand	Yield	Cement Bags/m <sup>3</sup>	Stock Bricks per mix (190x90x90)mm
Old (32,5 R)	2 x 	8 x 	0.40	5	257
New (42,5 N)	2 x 	10 x 	0.48	4	314
Difference	0	2 x 	~22% more	~22% less	~22% more

KEY	OLD PPC Surebuild Cement 32,5 R	NEW PPC Surebuild Cement 42,5 N
		



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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).

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