

QUANTITIES REQUIRED FOR MORTAR

The following tables give guidelines as to what quantities of PPC Surebuild and building sand are required to lay 1 000 bricks or blocks, assuming 12 mm joints between the bricks are used.

Due to natural wastage in the bricklaying process we recommend an extra 20% is added to the quantities ordered.

The mixes are based on loose materials (ie. not compacted).

If a good quality building sand is used, this mix would yield a Class II mortar. (1 part cement : 6 parts building sand).

QUANTITIES REQUIRED FOR BRICKS

Mix Proportions 1 : 6

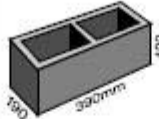


MATERIAL REQUIRED FOR 1000 BRICKS			
WALL SIZE	m ² WALL AREA	No. BAGS SUREBUILD	m ³ SAND
 Single brick wall	20	4	1,0
 Double brick wall	10	6	1,5

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QUANTITIES REQUIRED FOR BLOCKS

BLOCK SIZE	FOR 1000 BLOCKS		
	WALL SIZE m ²	No. BAGS SUREBUILD	m ³ SAND
	80	9	2,00
	FOR 10m ² WALL		
	NUMBER OF BLOCKS	No. BAGS SUREBUILD	m ³ SAND
	125	2,00	0,25

BLOCK SIZE	FOR 1000 BLOCKS		
	WALL SIZE m ²	No. BAGS SUREBUILD	m ³ SAND
	80	5	1,00
	FOR 10m ² WALL		
	NUMBER OF BLOCKS	No. BAGS SUREBUILD	m ³ SAND
	125	1,00	0,25

BLOCK SIZE	FOR 1000 BLOCKS		
	WALL SIZE m ²	No. BAGS SUREBUILD	m ³ SAND
	80	7	1,50
	FOR 10m ² WALL		
	NUMBER OF BLOCKS	No. BAGS SUREBUILD	m ³ SAND
	125	1,00	0,25

Visit our Web Site 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.

THE SURE WAY TO ESTIMATE QUANTITIES



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THE FOLLOWING GUIDES ARE FOR USE WITH PPC SUREBUILD

PPC Surebuild is a high strength, high quality cement which means you need less PPC Surebuild for a given task than if you used another cement of inferior quality.

QUANTITIES REQUIRED FOR CONCRETE

These mixes assume the use of a good quality Concrete sand and 13mm to 19mm stone.

Concrete strength is measured in MPa (MegaPascal). Concrete mixes vary according to the final strength required.

Due to on-site wastage, we recommend an extra 10% is added to the quantities ordered.

The strength of each mix is also dependent upon the correct amount of water being used. Add enough water to get a mix that you can compact.

Too much water will weaken the concrete.

The mixes are based on loose materials (ie. not compacted).

To produce 1m³ of concrete will require 1000 litres of mix.

1 Bag of PPC Surebuild yields 33 litres of cement.

The mixes that follow are in line with NHBRC requirements and no wastage has been allowed for.

LOW STRENGTH CONCRETE

Foundations, Post Holes, Paths & Patios
Strength Guide 10 - 15 Mpa
Mix Proportions 1:4:4 (OPC use 1:5:5)
Water Guide 80l per 2 bags of cement

MIX QUANTITY m ³	No.BAGS SUREBUILD	SAND m ³	STONE m ³
0,2	1	0,1	0,1
0,4	2	0,3	0,3
0,6	3	0,4	0,4
0,7	4	0,5	0,5
0,9	5	0,6	0,7
1,1	6	0,8	0,8
1,8	10	1,3	1,3
3,7	20	2,6	2,7
7,5	40	5,2	5,4
15,0	80	10,4	10,7

MEDIUM STRENGTH CONCRETE

Driveways, General Concrete Work & Slabs
Strength Guide 20 - 29 Mpa
Mix Proportions 1:3:3 (OPC use 1:4:4)
Water Guide 65l per 2 bags of cement

MIX QUANTITY m ³	No.BAGS SUREBUILD	SAND m ³	STONE m ³
0,1	1	0,1	0,1
0,3	2	0,2	0,2
0,4	3	0,3	0,3
0,6	4	0,4	0,4
0,7	5	0,5	0,5
1,0	7	0,7	0,7
1,5	10	1,0	1,0
3,0	20	2,0	2,1
6,0	40	4,0	4,1
12,0	80	8,0	8,3

HIGH STRENGTH CONCRETE

Heavy Duty Floors & Precast Concrete
Strength Guide 30 - 35 Mpa
Mix Proportions 1:2:2 (OPC use 1:3:3)
Water Guide 50l per 2 bags of cement

MIX QUANTITY m ³	No.BAGS SUREBUILD	SAND m ³	STONE m ³
0,1	1	0,1	0,1
0,2	2	0,1	0,1
0,3	3	0,2	0,2
0,4	4	0,2	0,2
0,5	5	0,3	0,3
1,0	10	0,6	0,7
2,1	20	1,3	1,3
4,1	40	2,6	2,7
8,4	80	5,2	5,4

SCREED MIX

Mix Proportions 1 : 3

FLOOR AREA m ² 25mm Thick	40mm Thick	No.BAGS SUREBUILD	SAND m ³
4	2	1	0,01
7	5	2	0,25
11	7	3	0,30
14	9	4	0,40
18	11	5	0,50
36	23	10	1,00
72	48	20	2,00
145	90	40	4,00

QUANTITIES REQUIRED FOR PLASTER

The following guides will show you how much PPC Surebuild Cement and plaster sand you need for the quantity of mix required. Due to the high wastage factor when plastering, we recommend an extra 30% is added to the quantities ordered.

The mixes are based on loose materials (ie. not compacted).

PPC SUREBUILD PLASTER MIX

Mix Proportions 1 : 6

WALL AREA m ²	No.BAGS SUREBUILD	SAND m ³
10	1	0,25
35	3	0,75
60	5	1,50
120	10	2,50

For information on good Mortar, Plaster and Concrete Practice, please refer to the PPC Cement "The Sure Way to do Bricklaying & Plastering" and "The Sure Way to Make Concrete" leaflets.