Engineering Information

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Engineering Information

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QUANTITIES OF MATERIALS REQUIRED FOR MORTAR AND CONCRETE

1. Cu. ft. of Loose Portland Cement plus 0.36 Cu. Ft. (=2.25 gallons) of water gives 0.835 cu. ft of neat Cement Mortar.

1. Cu. ft. Loose Cement will cover approximately 10. Sq. ft. 1" Thick mixed Neat

17. Sq. Ft. 1" Thick mixed with 1 c. ft. of sand.

25. Sq. Ft. 1" Thick mixed with 2 c. ft. of sand.

34. Sq. Ft. 1" Thick mixed with 3 c. ft. of sand.

For Plastering on rick work one cu. ft. extra mortar per 100 sq. ft. is required to fill the insequalities and joints,

For back work masonry about 30 cu. ft. cement mortar is required per 100 cu. ft. of masonary with 1 /4" to 3/8 joints including wastage

For rubble masonry about 50 cu. ft: cement mortar is required per 100 cu. ft.

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THE TOTAL PROPERTY OF STATE OF COMMENTS OF STATE 1. Cu. ft. of Loose Portland Cement mixed with sand (80% voids) and broken stone ballast (45% voids) will give unmixed with water about:

3.9 Cu. Ft. Solid Dry Concrete if mixed 1:2:4:

4.7 Cu. Ft. Solid Dry Concrete if mixed 1:2 1/2:5

5.6 Cu. Ft. Solid Dry Concrete if mixed 1:3:6 7.5 Cu. Ft. Solid Dry Concrete if mixed 1:4:8

The Finel Yeild can be calculated by adding to these figures specified Volume

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MATERIALS REQUIRED FOR PLASTERING 100 SO. FT. OF SURFACE WITH VARYING THICKNESS OF MORTAR

C = Cement in Bags (Based on loose cement weighting 92 1bs. per cu.ft.) F.A. = Fine Aggregate (Sand) in cu. ft. in dry state

Mix.:	C 1:1 des 9		1:1 1/2		1:2		1:1 1/2	
Thickness	C.	F.A	C.	F.A	C.	F.A	C.	FA
3/8"	1.8	2.2	1.5	2.6	1.3	2.9	1.0	3.1
1/2"	2.4	2.9	1.9	3.5	1.7	3.9	1.4	4.2
3/4"	3.6	4.3	2.9	5.3	2.5	5.9	2.1	6.3
0.18 83.6	\$4.8	5.8	3.9	\$7.0	3.3	7.8	2.8	8.4
1 1/4"	6.0	7.2	4.8	8.8	4.1	9.8	3.5	10.4
1 1/2"	7.2	8.7	5.8	10.5	4.9	11.8	4.2	12.5
2"	9.6	11.5	7.8	14.0	6.6	15.7	5.6	16.7
7 15.7	8	120	103	670.8	869	91 A	10"	133
0Mix. : ♣	21.1 2		1:1 1/2		8.8 1:2 A		1:1 1/2	
Thickness	C.	F.A	6 C.4	F.A	C.	F.A	C.	F.A
3/8"	0.9	3.3	9.7	3.4	0.5	3.0	0.4	3.8
1/2"	1.2	4.4	1.0	4.6	6.7	4.9	0.5	5.1
4.3/4" 7	1.8	6.6	0.174	6.9	1.0	7.4	0.8	7.7
1 "20.5	2.4	8.8	1.2	9.2	1.4	9.8	1.1	10.2
1 1/4"	3.0	11.0	2.3	11.5	1.7	12.3	1.3	12.7
1 1/2"	3.6	13.1	2.9	13.8	2.0	14.8	1.6	15.3
2"	4.8	17.5	3.8	18.3	2.7	19.7	2.1	20.4

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No allowance made in table for wastage

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