



Estimating RainBloc® for Mortar

ESTIMATING FOR ORDERS

Most masons estimate they get 100 to 120 CMU (8 x 8 x 16) from 9 cubic feet of mortar; 105 CMU is a commonly used number in some areas.

Each bag of Masonry or Mortar cement makes 3 cubic feet of mortar, so you need 3 bags of Masonry or Mortar Cement to get 9 cubic feet of mortar. Since we use 0.5 quart of RainBloc® for Mortar per bag of Masonry or Mortar cement, this would mean that you need 1.5 quarts of RainBloc® for Mortar for 9 cubic feet of mortar or, equivalently, for 100 to 120 CMU.

For **Type N Portland-Lime mortar**, there is 1 bag of Portland cement plus 1 bag of lime to every 6 cubic feet of mortar, so there are 1.5 bags of Portland cement per 9 cubic feet of mortar. Since we use 1 quart of RainBloc® for Mortar per bag of Portland cement, this would mean that you need 1.5 quarts of RainBloc® for Mortar for 9 cubic feet of mortar or, equivalently, for 100 to 120 CMU.

For **Type S Portland-Lime mortar**, there is 1 bag of Portland cement plus ½ bag of lime to every 4.5 cubic feet of mortar, so there are 2 bags

of Portland cement per 9 cubic feet of mortar. Since we use 1 quart of RainBloc® for Mortar per bag of Portland cement, this would mean that you need 2 quarts of RainBloc® for Mortar for 9 cubic feet of mortar or, equivalently, for 100 to 120 CMU.

For **Type M Portland-Lime mortar**, there is 1 bag of Portland cement plus ¼ bag of lime to every 3.75 cubic feet of mortar, so there are 2.4 bags of Portland cement per 9 cubic feet of mortar. Since we use 1 quart of RainBloc® for Mortar per bag of Portland cement, this would mean that you need 2.4 quarts of RainBloc® for Mortar for 9 cubic feet of mortar or, equivalently, for 100 to 120 CMU.

For a single job, the mason may want to use the figure on the high side so that they do not run out of mortar admixture. If a mason already has a number of CMU per 9 cubic feet of mortar figure that they use in their estimates, they can plug in the precise usage rate to calculate their overall RainBloc® for Mortar need.

The logic and calculations reduced to the table below:

Type of Mortar	# of CMU per 9 cubic feet of mortar (8 x 8 x 16 inch)	Quarts of RainBloc® for Mortar per 9 cubic feet of mortar	Quarts of RainBloc® for Mortar per 100 CMU
Masonry or Mortar Cement	100 to 200	1.5	1.25 to 1.5
Type N Portland-Lime	100 to 200	1.5	1.25 to 1.5
Type S Portland-Lime	100 to 200	2.0	1.67 to 2.0
Type M Portland-Lime	100 to 200	2.4	2.0 to 2.4

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