LEHIGH WHITE CEMENT™

Technical Data Sheet

Lehigh White Masonry Cements

White Masonry Cement is specially formulated to make white and colored mortars that meet ASTM C270 Mortars for Unit Masonry

The benefits of using **Lehigh White Type N and Type S** Masonry Cements

- Ready to use at the job site – just add sand and water as directed by ASTM C270
- Yields reliable workability, improved board life and provides a more cohesive mix
- Meets all requirements of Standard Specification for Masonry Cement ASTM C91
- Use Lehigh White Masonry Cement & white sand for brightest mortars or stucco
- Excellent customer service from Lehigh White Cement Company's technical staff

Masonry Mortar Proportion Requirements adapted from ASTM C270 Table 2.

Mortar Type	Lehigh White Portland or PLC Cement	Masonry Cement Type			Aggregate Ratio* (Measured in Damp, Loose Conditions)
		M	S	N	
M	1			1	Not less than 2 ¼ and not more than 3 times the sum of the separate volumes of cementitious materials
S	½			1	
S			1		
N				1	
O				1	

* Note aggregate (sand) to meet C144 Specification for Aggregate for Masonry Mortar

Mixing Instructions:

For general masonry construction, use one bag of LEHIGH WHITE MASONRY CEMENT combined with 2 ¼ to 3 cubic feet of sand (machine mixing should be used when possible). First, place about place ¾ of the required potable water and ½ the required sand into the mixer and start the mixing. Next, add all the cement and any desired additive, mix one minute, then slowly add the remaining sand and water. Mix for a minimum of 3 and a maximum of 5 minutes after the last mix water has been added; this improves uniformity and workability of the mortar. Although minor re-tempering is allowed, mortar should be used or discarded after 90 minutes.

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Guide to Selecting Masonry Mortars from ASTM C270 Table X1.1**			
Location	**Building Segment**	**Recommended Mortar**	**Alternative Mortar**
Exterior, above grade	Load-bearing walls	Type N	Type S or Type M
	Non-load bearing walls	Type O	Type N or Type S
	Parapet walls	Type N	Type S
Exterior, at or below grade	Foundation walls, retaining walls, manholes, sewers, pavements, walks and patios	Type S	Type M or Type N
Interior	Load-bearing walls	Type N	Type S or Type M
	Non-load bearing walls	Type O	Type N

** See ASTM C270 Standard Specification Mortar for Unit Masonry for additional information

Note: The material quantities in the below tables are estimations only with no allowance for waste. Actual amounts will vary as they are dependent on the nature of the masonry sand, mortar mixing methods and application. More accurate estimates are found via field trials with actual materials.

Concrete Masonry Units

Materials Required per 100 Square Foot with a 1:3 Mix by Volume [A]

Nominal Wall Thickness	Nominal Unit Size: W x H x L	No. of Units	Mortar Cubic Feet	No. Bags of Masonry Cement	Bulk Loose Masonry Sand
4”	4 x 8 x 16	112.5	9.0	3.0	9.0
6”	6 x 8 x 16	112.5	9.0	3.0	9.0
8”	8 x 8 x 16	112.5	9.0	3.0	9.0
12”	12 x 8 x 16	112.5	9.0	3.0	9.0

[A] Based on face-shell bedding with 3/8” thick mortar joint. Will supply approximately 150 – 16” long block.

Brick Masonry with a 1:3 Mix by Volume

Materials Required per 100 Square Foot Wall [B]						Per 1000 Bricks [B]		
Wall Thickness	No. of Bricks	Cu. Ft. of Mortar	No. Bags Masonry Cement	Cu. Ft. Damp Loose Sand		Cu. Ft. of Mortar	No. Bags Masonry Cement	Cu. Ft. Damp Loose Sand
4”	616	7.2	2.4	7.2		11.7	3.9	11.7
8”	1,232	18.6	6.2	18.6		15.0	5.0	15.0
12”	1,848	30.0	10.0	30.0		16.2	5.4	16.2
16”	2,464	41.4	13.8	41.4		16.8	5.6	16.8

[B] Standard size brick: 2-¼” x 3-¾” x 8” assuming ½” thick joints. No allowance for waste.