

GIBCO'S® MRF®

LIQUID-LIME®

Mortar containing GIBCO'S® MRF® shall be applied with with ASTM C270 pactices. Portland Cement used shall comply with ASTM C150, and sand shall comply with ASTM C144. GIBCO'S MRF® is a specialty admixture that replaces the lime proportions for the specified mortar type in table 2 of ASTM C270 for Cement-Lime Mortars.

Proportions by Volume (Cementitious Materials) AS PER ASTM C270

Mortar Type	Portland Cement	GIBCO'S® M.R.F®	Aggregate Ratio (measured in damp, loose conditions)
M	1	2 oz.	3x vol. of cement
S	1	3 oz.	4x vol. of cement
N	1	3 oz.	5x vol. of cement

Mixing recommendations for mortar types are proportioned by the manufacturer in order to meet the property specifications of cement-lime mortars in table 1 of ASTM C270.

Mixing Instructions

Note: GIBCO'S® M.R.F® reduces the total water needed to achieve desired consistency; be cautious not to over water. Additional water can be added after cement and sand proportions to achieve desired consistency.

- (1) Approximately 1/2 the estimated mixing water required
- (2) Add GIBCO'S® M.R.F® to the mixing water
- (2) Add sand
- (3) Add cementitious material, and
- (4) The balance of the mixing water required to produce the desired consistency.

*If mixed in smaller batches with a drill paddle mixer, mix only for a period of 30-45 seconds. Over Mixing can cause additional air entrainment beyond ASTM C270 specifications.