



THE LIME CENTRE

The Lime Centre Ltd, Hazeley Road, Morestead, Winchester, Hampshire SO21 1LZ
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Mortar Disaggregation Report

DATE

24th April 2024

SITE

1 Port Steet, Manchester, M1 2EG

CLIENT

Renaker Build Ltd – Ben Cullen

LOCATION / FUNCTION IN BUILDING

Ref – Brick Mortar

1.0 SUMMARY

The sample is a medium/weak strength, pale brown lime mortar.

The sample is made up of approximately 1-part lime binder and other calcareous material such as chalk to 3.62 parts aggregate by weight. The aggregate is made up of pale yellow/brown sand graded from 0 to 3mm. The aggregate makes up 78% of the sample by weight.

Compatible Repair site blended:

A compatible repair mortar can be made with a volumetric mix of 1 part NHL3.5 to 2 ½ parts well graded Morestead 3mm sand.

Compatible repair preblended:

Natural Mortar / CG Tilgate / NHL3.5 is a close match in strength and texture with some variation in colour. (Biscuit sample sent by post)

2.0 FINDINGS

2.1 DISAGGREGATION ANALYSIS

The sample was separated by dissolution in hydrochloric acid and the relative proportion of aggregate was determined. The aggregate makes up 78% by weight.



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2.2 DISAGGREGATION SAMPLE

- A. DRY WEIGHT OF SAMPLE: 4.60g
- B. DRY WEIGHT OF SAND/AGGREGATE: 3.52g
- C. DRY WEIGHT OF LIME AND CALCAREOUS MATERIAL (less 10% CO₂): 0.97g
- D. PERCENTAGE SAND/AGGREGATE BY WEIGHT 78%
- E. PERCENTAGE LIME AND CALCAREOUS MATERIAL BY WEIGHT: 22%
- F. RATIO LIME AND CALCAREOUS MATERIAL TO SAND/AGGREGATE BY WEIGHT: 1 : 3.62

2.3 THE AGGREGATE GRANULOMETRY AND GRADING

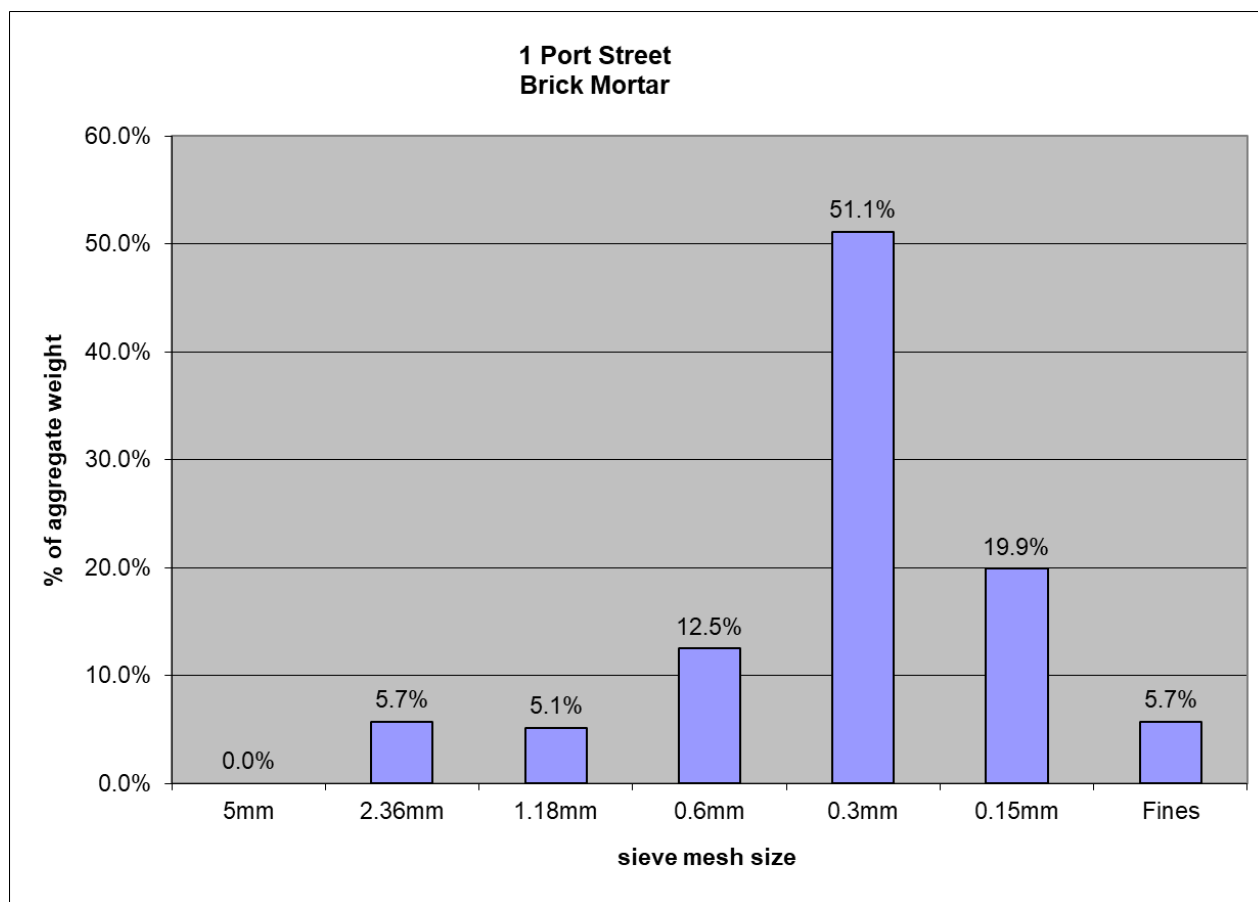
The aggregate is made up of sand graded from 0 to 3mm.

1 Port Street Brick Mortar		
BS Sieve	Aggregate Weight Retained (g)	% Aggregate Weight
5.00mm	0.00	0.00%
2.36mm	0.20	5.68%
1.18mm	0.18	5.11%
0.60mm	0.44	12.50%
0.30mm	1.80	51.14%
0.15mm	0.70	19.89%
Fines	0.20	5.68%



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Mortar and Render sample biscuits

Mortar or render sample biscuits are a guide to colour. Finishes vary by technique so sample panels made on site are recommended to give a fair representation with your operative's finish.

Mortar biscuits are finished by rubbing off the surface as it stiffens. If mortar is finished smooth on site without the fatty surface being rubbed or brushed off then the colour will appear lighter.

Render biscuits are finished with a light dressing with a sponge float.

Note

The information given above relate to the sample. A repair specification should take into account the original mortar along with site conditions, exposure, function of mortar, seasonal working etc.