



THE LIME CENTRE

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

TEL: 01962 742636 FAX: 01962 742637

Mortar Disaggregation Report

DATE

26/09/2019

SITE

20 Western Road

CLIENT

JR Plumbing, 1 Meadow View, Peak Lane, East Preston, Littlehampton, BN16 1RN

LOCATION / FUNCTION IN BUILDING

Mortar sample

1.0 SUMMARY

The sample is a medium strength, pale yellow lime mortar.

The sample is made up of approximately 1-part lime binder and other calcareous material to 1.57 parts aggregate by weight. The aggregate is made up of pale brown sand graded from 0 to 3mm. The aggregate makes up 61% of the sample by weight.

Compatible Repair site blended:

A compatible repair mortar can be made with a volumetric mix of 1 part NHL 3.5 to 2 ½ parts well graded sand up to 3mm.

Compatible repair preblended:

Natural Mortar / Harnage / NHL3.5 is a close match in strength, texture and 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 61% by weight.

2.2 DISAGGREGATION SAMPLE



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- A. DRY WEIGHT OF SAMPLE: 7.88g
- B. DRY WEIGHT OF SAND/AGGREGATE: 4.61g
- C. DRY WEIGHT OF LIME AND CALCAREOUS MATERIAL (less 10% CO₂): 2.94g
- D. PERCENTAGE SAND/AGGREGATE BY WEIGHT 61%
- E. PERCENTAGE LIME AND CALCAREOUS MATERIAL BY WEIGHT: 39%
- F. RATIO LIME AND CALCAREOUS MATERIAL TO SAND/AGGREGATE BY WEIGHT: 1 : 1.57

2.3 THE AGGREGATE GRANULOMETRY AND GRADING

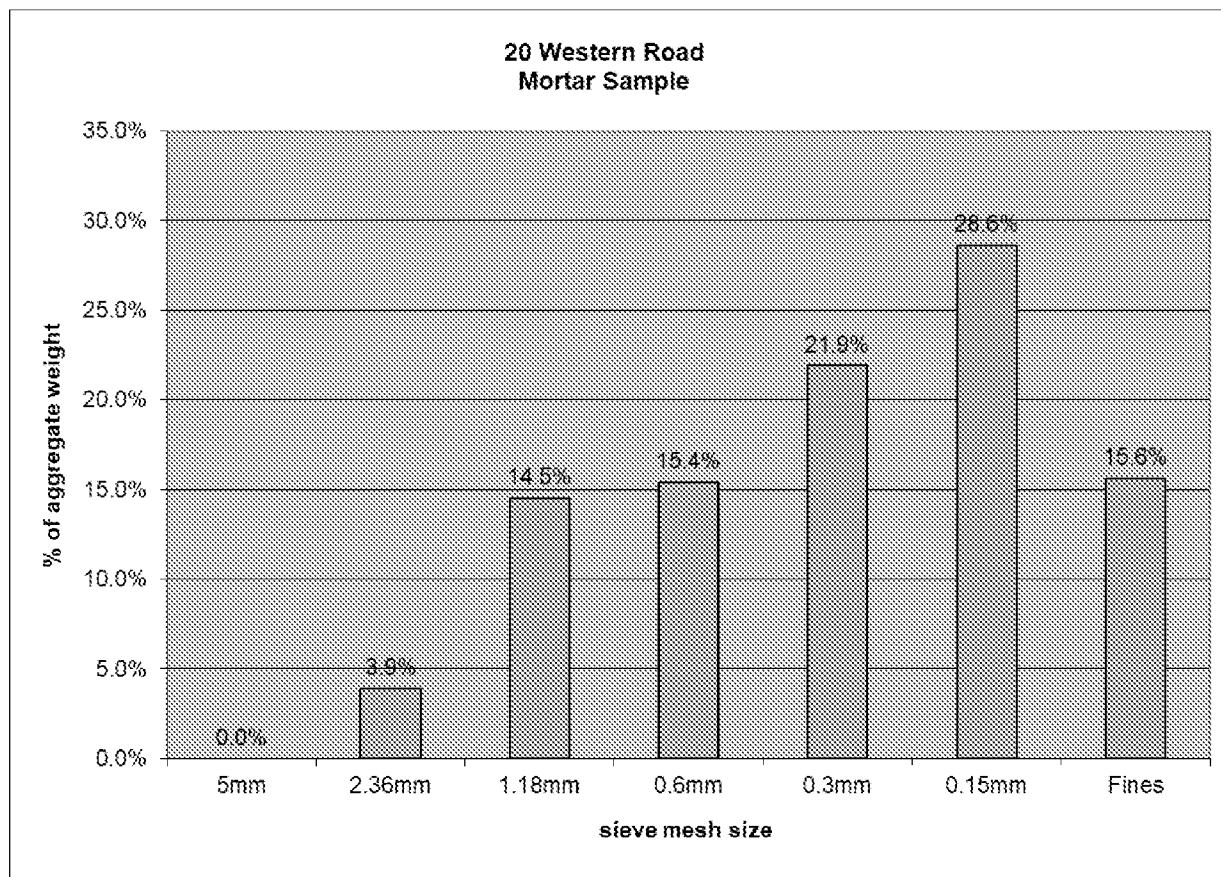
The aggregate is made up of sand graded from 0 to 3mm.

20 Western Road Mortar Sample		
BS Sieve	Aggregate Weight Retained (g)	% Aggregate Weight
5.00mm	0.00	0.00%
2.36mm	0.18	3.90%
1.18mm	0.67	14.53%
0.60mm	0.71	15.40%
0.30mm	1.01	21.91%
0.15mm	1.32	28.63%
Fines	0.72	15.62%



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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.