



THE LIME CENTRE

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

DATE

13/02/2019

SITE

Red Cow, 50 Crown Street, Reading, RG1 2SE

CLIENT

Platinum SA Ltd

LOCATION / FUNCTION IN BUILDING

Pointing Mortar

1.0 SUMMARY

The sample is a medium strength, yellow/brown lime mortar. There are also pieces of grey cement mortar present that were separated from the sample.

The lime mortar sample is made up of approximately 1-part lime binder and other calcareous material to 2.59 parts aggregate by weight. The aggregate is made up of relatively fine yellow/brown sand graded from 0 to 1mm. The aggregate makes up 72% 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 2mm sand which will be more durable than the sample.

Compatible repair preblended:

Natural Mortar / Ashdown RG 2mm / NHL3.5 is a close match in colour, strength and grading to the lime mortar sample.

Natural Mortar / Sandgate RG 2mm / NHL3.5 is a close match in colour and texture to the cement mortar sample.

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 72% by weight.



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2.2 DISAGGREGATION SAMPLE

- A. DRY WEIGHT OF SAMPLE: 2.13g
- B. DRY WEIGHT OF
SAND/AGGREGATE: 1.49g
- C. DRY WEIGHT OF LIME
AND CALCAREOUS MATERIAL
(less 10% CO₂): 0.58g
- D. PERCENTAGE SAND/AGGREGATE
BY WEIGHT 72%
- E. PERCENTAGE LIME AND
CALCAREOUS MATERIAL 28%
BY WEIGHT:
- F. RATIO LIME AND CALCAREOUS
MATERIAL TO SAND/AGGREGATE
BY WEIGHT: 1 : 2.59

2.3 THE AGGREGATE GRANULOMETRY AND GRADING

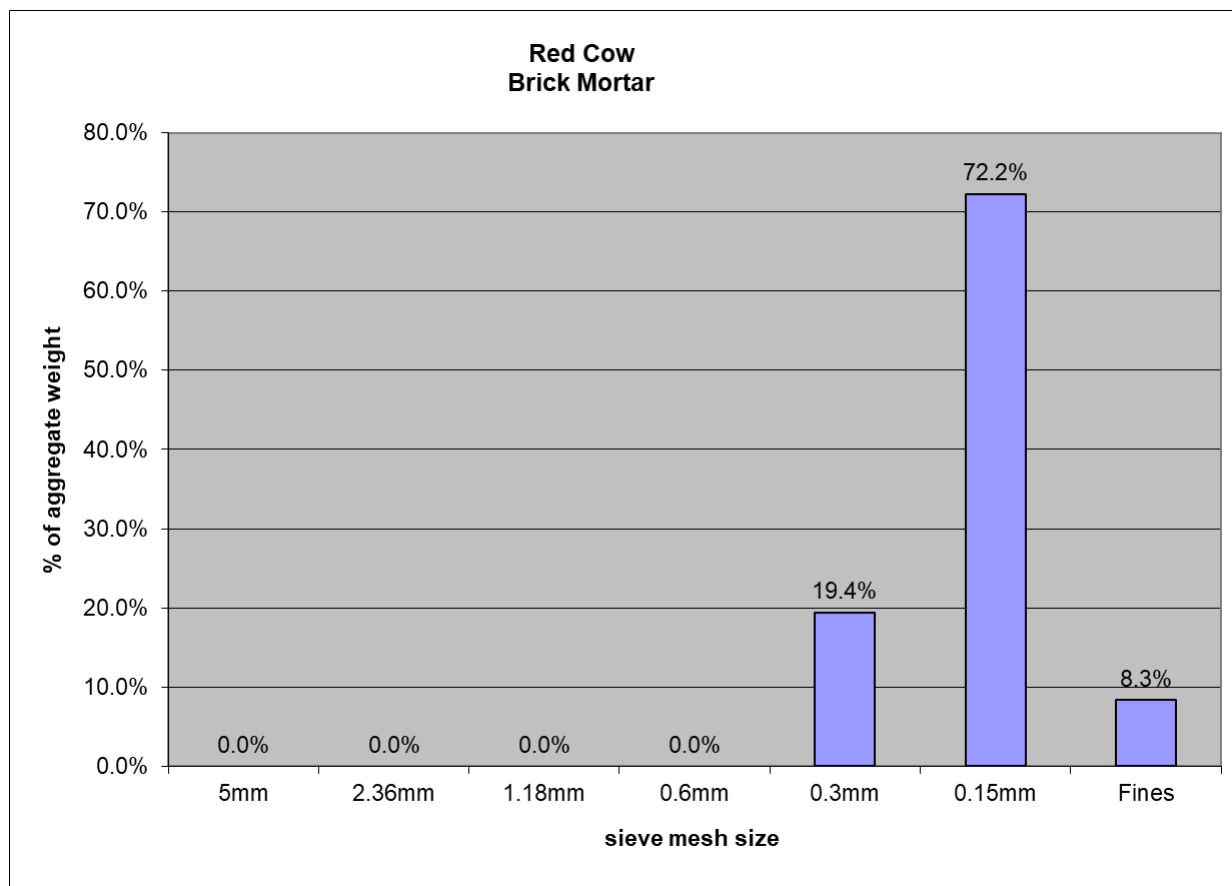
The aggregate is made up of sand graded from 0 to 1mm.

Red Cow Brick Mortar		
BS Sieve	Aggregate Weight Retained (g)	% Aggregate Weight
5.00mm	0.00	0.00%
2.36mm	0.00	0.00%
1.18mm	0.00	0.00%
0.60mm	0.00	0.00%
0.30mm	0.28	19.44%
0.15mm	1.04	72.22%
Fines	0.12	8.33%



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NOTE: The proportions 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.