



THE LIME CENTRE

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

DATE

8th September 2025

SITE

1 West Stoke House

CLIENT

LK Property Repairs – Kai Vallis

LOCATION / FUNCTION IN BUILDING

Render Sample

1.0 SUMMARY

The sample is medium/weak strength lime render with a modern decorated finish.

The sample is made up of approximately 1 part lime binder and other calcareous material such as chalk to 4.87 parts aggregate by weight. The aggregate is made up of pale yellow/grey sand graded from 0 to 2mm. The aggregate makes up 83% of the sample by weight.

A suitable repair for the base coats can be made using 1 part lime putty to 2 ½ parts well graded 5mm sand and hair. This is available as a premix **Heritage Putty Render Coarse 5mm**. Hair can be added on site if required.

A suitable repair for the finish coat can be made using 1 part lime putty to 3 parts well graded 3mm sand or premixed **Heritage Putty Render Medium 3mm**.

2.0 FINDINGS

2.1 DISAGGREGATION ANALYSIS

The sample was separated from the aggregate by dissolution in hydrochloric acid and the relative proportion of sand was determined. The sand makes up 83% by weight.



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2.2 DISAGGREGATION SAMPLE

- A. DRY WEIGHT OF SAMPLE: 30.00g
- B. DRY WEIGHT OF SAND/AGGREGATE: 24.43g
- C. DRY WEIGHT OF LIME AND CALCAREOUS MATERIAL (less 10% CO₂): 5.01g
- D. PERCENTAGE SAND/AGGREGATE BY WEIGHT 83%
- E. PERCENTAGE LIME AND CALCAREOUS MATERIAL BY WEIGHT: 17%
- F. RATIO LIME AND CALCAREOUS MATERIAL TO SAND/AGGREGATE BY WEIGHT: 1 : 4.87

2.3 THE AGGREGATE GRANULOMETRY AND GRADING

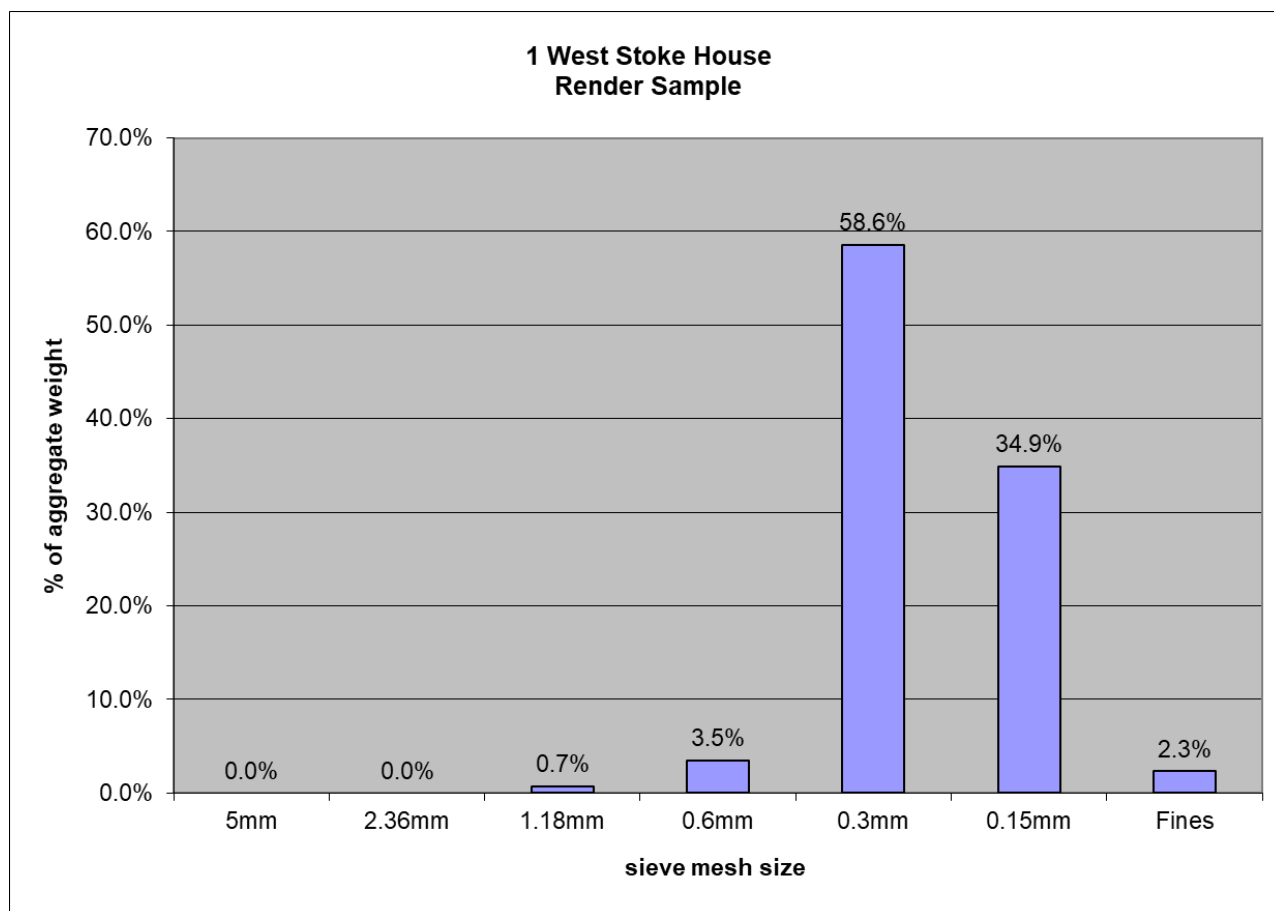
The aggregate is made up of sand graded from 0 to 2mm.

1 West Stoke House Render Sample		
BS Sieve	Aggregate Weight Retained (g)	% Aggregate Weight
5.00mm	0.00	0.00%
2.36mm	0.00	0.00%
1.18mm	0.18	0.74%
0.60mm	0.85	3.48%
0.30mm	14.31	58.58%
0.15mm	8.52	34.88%
Fines	0.57	2.33%



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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.