



Project Number: NF - 0012

Project Name: Westoe Village - Renovation

Project Address: Chapel House, Westoe Village, South Sheilds, Tyne & Wear

Client Name: North East Spray Render

Date: 20/5/21

M20 LIME RENDERED / ROUGHCAST COATING

To be read with Preliminaries / General Conditions

GENERAL / SYSTEM REQUIREMENTS

160 PROPRIETRY CEMENT GAUGED RENDER

Substrate: Damp Brickwork

Preparation: Clean down existing surfaces wetting them and then letting them dry. The salts present in the masonry will crystalize on the surface and this action must be repeated several times to reduce the salt's content. New masonry should be cured for 28 days.

SURVEY OF EXISTING WALLS

Survey report: The condition of the surface to receive the FASSALIME render system, should be inspected to ensure the surface is sound, dry and free from dirt and organic matter. A pull-off test can be carried out, on request. Remedial work shown to be necessary by survey. For further information contact Fassa UK Ltd.

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Undercoat – S650

Product reference:

S 650 is a white dry mortar made from natural lime, sulphate-resistant hydraulic binder and graded limestone sands.

Base coats –KB13 / K1710

Product reference:

KB 13 is a dry mortar composed of natural lime, hydraulic binder, crushed marble and graded limestone sand.

Product reference:

K 1710 is used as a foundation plaster on old and new walls made from stone, bricks, tuff, etc. The elasticity of the plaster and its fibre content mean it can also be used, in accordance with the instructions shown below, on mechanically weak substrates, such as masonry made of stones and/or bricks (restoration works in general).

Finish coat:

Product reference:

S 605 is used as a breathable finish coat plaster/render with marmorino effect for interiors and exteriors. It can be used as a finish coat plaster/render, completing renovation cycles on masonry subject to rising damp applied using macroporous plasters/renders.

Decorative coat:

- **Product reference:** RSR 421
- **Thickness:** 1.5mm
- **Finish:** Structured texture
- **Colour:** TBC from 365 range
- **Accessories:** FASSA UK Ltd approved corner, stop, bell-cast and movement beads, joint sealing strips / APU beads to window and door frames. Supplied by FASSA UK

413 SAMPLES

Procedure:

submit samples / examples of the designated items for approval.
Keep approved samples on site for the duration of the contract for inspection / comparison.

Designated items:

Colour sample of the texture and or 1m² panels of textured finish applied on site.

UNIFORMITY OF COLOUR AND TEXTURE OF COATING MIXES

Type / proportion of constituent materials:

Unchanged once samples of coatings have been approved.

Supplies of material:

Sufficient to give consistent and uniform colour and texture ordered in one consignment to complete the project.

497 COLD WEATHER

Do not use frozen materials and do not apply materials to frost bound surfaces or apply when air temperature is at or below 5°C on a falling thermometer or below 3°C on a rising thermometer. Maintained above minimum level recommended by manufacturer until primer / topcoat has cured. Coatings damaged by rain or frost must be replaced.

510 SUITABILITY OF SUBSTRATES

Soundness: Free from loose areas and significant cracks and gaps.

Cutting, chasing, making good, fixing of conduits and services outlets and the like:
Completed

Tolerances: Permitting specified flatness / regularity of finished coatings.

Cleanliness: Free from dirt, dust, efflorescence and mould, and other contaminants incompatible with coatings.

640 BEADS / STOPS GENERALLY

Location: External angles and stop ends, except where specified otherwise.

650 Movement Joints

Installation: Centred over joint in substrate.

720 DUBBING OUT

General: Correct substrate inaccuracies.

810 APPLICATIONS GENERALLY

All installations are to be made in accordance with FASSAUK LTD typical details, technical manuals, specifications and certificates. Products can be applied by trowel or machine.

Under no circumstances shall the FASSA UK LTD products be altered with any additives except as and when directed by FASSA UK LTD.

STOP BEADS:

Establish vertical line at the positions indicated on drawings and bed into KB13 / K1710 mortar and trowel the beads just underneath the surface of the render and level out.

BELLCAST BEADS:

Establish horizontal line at the positions indicated on drawings and bed into KB13 / K1710 mortar and trowel the beads just underneath the surface of the render and level out.

CORNER BEADS:

For meshed corner beads establish a vertical line and bed the meshed angle into the wet basecoat, KB13 / K1710 and trowel the beads just underneath the surface of the render and level out.

SEALING WITH JOINT SEALING STRIP AND SR BAND:

To compensate for thermal expansion of aluminium window sills, prior to the installation of the render. Apply APU/frame seal to the frame of windows and doors so that the finish later finishes flush.

MOVEMENT JOINTS:

Joints to coincide with the movement joints on the detail drawings. Use horizontal slip joint generally at floor level. Ensure there is enough gap between top and bottom profile to compensate for the movement predicted at each floor level.

UNDECOAT:

S 650 is applied by hand or using plaster sprayers, such as FASSA, PFT and the like. When preparing by hand, add around 26-28% of clean water and then mix by hand or mechanical stirrer until obtaining a mixture of the desired consistency. After mixing with water, the mortar must be applied within 2 hours. S 650 is applied in a single layer to thicknesses of 4-5 mm, so as to completely cover the substrate.

BASE COAT:

Over the damp zone of the masonry, it's possible to use KB 13 applied using plaster sprayers, such as FASSA, PFT. It is applied in a single layer up to a thickness of 20 mm, by spraying from the bottom towards the top and then it is straightened with H floats or plaster knives with horizontal and vertical strokes to obtain an even surface. For thicknesses exceeding 20 mm, the plaster must be applied in a series of layers, at least 1 day apart, always remembering to roughen the underlying layer. After mixing with water, the mortar must be applied within two hours. Surface work on the plaster (with a float or notched trowel etc.) can be carried out from 1.5 to 4 hours after application according to the ambient conditions and the type of surface.

When the plaster has completely hardened, the walls are finished by applying smoothing plaster, mineral-based wall coatings etc.

Alternatively to KB 13 and always over the damp zone, it's possible to use K 1710; the product can be applied by hand or using plaster sprayers, such as FASSA, PFT. When preparing by hand, add 21.5-23.5% of clean water and then mix by hand or mechanical stirrer for no longer than 3 minutes, until obtaining a mixture of the desired consistency. After mixing with water, the mortar must be applied within 2 hours.

The plaster or render is applied from the bottom upwards and then levelled using an H-shaped or blade screed with horizontal and vertical movements so as to ensure, where required, a flat surface, or uniform plaster-render thickness.

K 1710 is applied in a single layer up to 20 mm thick. For thicknesses exceeding 20 mm, the plaster must be applied in a series of layers. Each layer must be applied before the underlying layer hardens; the latter must be left rough.

Surface work on the plaster (with a float or notched trowel etc.) can be carried out from 1.5 to 4 hours after application according to the ambient conditions and the type of surface.

FINISH COAT WITH REINFORCING GLASS FIBRE MESH:

S 605 is used as a breathable finish coat plaster/render with marmorino effect for interiors and exteriors.

Add 27-29% clean water and mix in an ordinary cement mixer or, for small quantities, by hand or mechanical stirrer. Maximum mixing time 3 minutes; let the mixture stand for 10 minutes before application. The mix must be used within 2 hours.

Apply using a metal trowel, making sure to distribute a uniform layer of material; finish using a sponge float, with circular movements.

For best aesthetic results on irregular base coat plasters/renderers, apply two layers of material.

It is recommended to embed alkali-resistant fibreglass mesh in the first layer, such as FASSANET 160. Apply a second layer of S 605 once the first has set, and then float finish the skim coat using a sponge float.

MESH REINFORCEMENT:

Apply FASSANET 160 Reinforcing Mesh to the whole surface of the basecoat whilst it is still wet. Trowel the mesh into the surface, leaving it just below the surface of the render and level out. Ensure that the mesh overlaps by a minimum of 100mm. At window, door openings window reveals/head junction additional mesh is required, this will consist of an extra layer of reinforcement mesh "stress patches" measuring a minimum of 200 mm x 300 mm positioned at 45 degrees.

PRIMER:

FS 412 Primer should be diluted by weight with water: one part of FS 412 must be diluted with 1 part of water. Apply the product preferably with brush or roller. After treating the surface with the primer, wait at least 16 hours before applying paints and coatings.

DECORATIVE COAT:

RSR 421 is used as a protective and decorative coating, white and coloured, on lime-cement base coatings for exteriors, including in dehumidifying cycles especially where both high breathability and low water absorption are needed.

Mask off window frames etc to prevent staining of the finish coat, ensure all scaffold boards are free from dirt before application. Apply using a metal trowel, taking care to distribute the material uniformly. The surface is finished using a plastic trowel with circular movements. Application of the 0.6 mm grading requires 2 layers of material.

The second layer must be applied when the first is completely dry. In addition, a metal trowel is preferable for both application and finishing.

Avoid the application at temperatures below +5°C or above +30°C and with a relative humidity higher than 75%; also the application on surfaces in full sunlight or with strong winds must be avoided.

Exterior façades coated with RSR 421, during application and on the days after drying, must be protected against rain or other precipitation and high relative humidity in the atmosphere (fog) for at least 48-72 hours, to prevent phenomena such as "streaking", washing away, stains, colour alterations, etc.

PROTECTIVE COAT:

If required, PS 403 can be applied by brush or wool roller (preferably short-napped). Mask off window frames etc. to prevent staining of the finish coat, ensure all scaffold boards are free from dirt before application. Apply two layers (in opposite directions), at least 6 hours apart. Dilution of PS 403 by weight with water: for application by brush, first layer up to 30% and second layer up to 20%. The nature of the raw materials used ensures suitable protection of the foundation plasters maintaining the breathability of the masonry.

It is recommended that a suitable silicone sealer is applied where the render meets openings such as reveals, window and door frames.

PLINTH FINISH RENDER: It is not recommended to apply below DPC.
For further information contact Fassa UK Ltd.

480 CONSTRUCTION/MOVEMENT JOINTS

- **Location:** As shown on drawings
- **Formation:** Accurately to detail
- **Modifications to joint locations/design:** Agree revisions before proceeding

500 ACCESSORIES:

- PVC or corner beads with mesh,
- PVC under drip beads with mesh,
- PVC universal expansion beads with mesh,
- PVC stop beads

510 INSPECTION OF COMPLETED INSTALLATION

- **Timing:** As soon as possible after completion of the work and before removing access.
- **Notice for inspection (minimum):** 7 working days
- **Defects:** Report immediately.