

## **BASROC® Panel Specification – with BASROC Panel Render & Texture**

### Substrate Preparation:

The Basroc Panel, screwed through vapour permeable wall wrap to the external wall framing, is finished onsite with the Basroc render system. This system incorporates Basroc Fibreglass Mesh embedded into an initial base coat of Basroc Panel Render, followed by a second base coat layer and finished with Basroc tintable texture.

Product selection, and incorporation of the Basroc External Wall Cladding System into the building design, should be made by a person who is familiar with the application and technical aspects of the product and it's method of installation, with ready access to the relevant technical information related to product use.

System installation must be carried out by a competent tradesman with experience in external wall cladding and rendering. They must have read and adhered to all relevant technical information on product installation including the installation techniques set out in this specification document and the Basroc Technical Manual.

### Prior to Installation

- Ensure the wall frame is square, level and plumb;
- Check that the stud spacing does not exceed 600 mm;
- Ensure bracing resistance is being provided by the wall framing - Basroc External Wall Cladding System is not designed to act as wall bracing;
- Ensure panel edges that are parallel to the studs are supported so that fixings can be installed 50mm from the panel edge as required;
- To achieve this requirement, additional framing and/or back blocking may be required at vertical panel joints. For typical details for double-studs and/or back-blocking with materials similar to the studs;
- Ensure eave linings, flashings, damp proof course and termite protection are provided as per the project requirements;
- Ensure back blocking is installed for wall mounted services, downpipes, penetrations etc;
- Ensure windows are aligned to meet the project specific detailing requirements for battens, finished reveal depth etc.

Steps to install the Basroc System:

1. **Basroc Breathable Builders Paper** – Paper is to be fixed over the studs, cut openings around penetrations (e.g. doors, windows, and other services) installed in accordance with this document and the Basroc Technical manual and AS 4200.2:2017.

If the builders paper has been installed by another party (eg. by the builder) prior to application, the person who installing the panel should make sure the paper has been correctly installed before starting.

2. **Basroc Flashing Tape** is required to be installed around all doors, windows and openings and forms part of the weatherproofing of the system. In all cases the Flashing Tape must be applied in accordance with the manufacturers' instructions and with emphasis on:

- a. Ensuring the surfaces being joined are clean and free from any contamination such as dust, dirt, oil or silicones;
- b. The installation temperature range and environmental conditions are within tolerances;
- c. Pressure is applied to the surface to ensure firm contact with the substrate;
- d. Tapes are not to be used as mechanical joining devices, care should be taken to ensure that the materials joined are not liable or subject to movement. Flapping of the two surfaces joined by the tape creates enormous pressure on the join and can lead to tape breakdown.

3. **Cutting Panels** - The use of Personal Protective Equipment is required for cutting Basroc. The product can be easily & conveniently cut to size using a serrated knife or disposable Stanley knife.

It is recommended that the installer works in a well ventilated area, wears a P1 dust mask, long sleeves, gloves & eye protection to protect from any particles which may become airborne when handling the product.

4. **Fixing Panels** - The panel is screwed to the stud through the washers at maximum 250mm spacing up every stud. The screws should be a minimum of 25mm longer than the panel thickness for timber framing; or penetrate steel framing by min 3 full screw threads. Note that screws must be driven only until the washer just sinks into the Basroc panel.

5. **Smartbond Professional Fire Stop foam filler** is to be installed between panels. Apply a bead to edge of installed panels prior to installing new sheets. Leave a 3mm gap between panels to ensure adequate space for foam filler to expand.

Use of a non-system approved foam filler may affect the integrity of the panel.

6. **Control Joints** - 15mm (+/- 5mm) horizontal and vertical control joints should be placed at regular intervals to allow for building movement. Locations & frequency are to be specified by the architect, engineer or builder for the specific project.

Typically control joints are required every 6-8m horizontally, between each floor level (eg, 3m high), as well as between the Basroc panel and dissimilar materials. Basroc Flashing Tape is to be applied to the builders wrap behind each control joint to increase water ingress protection ie, both sides of the panels form the control joint to cover the flashing tape.

7. **At window, door and other large openings** ensure a 3mm gap is made between the panel and the wall framing. Cut the panel at window sills at a minimum of 7° to provide for fall away from the opening. At all penetrations install Basroc External Angles and “butterfly” the mesh to all corners

8. **External Corners** – Aluminium external angles are required to be installed on all openings & external corners. These are to be glued on with Basroc Smartbond Professional Fire Stop foam filler.

9. **Internal Corners** - Install an additional layer of Basroc Fibreglass Mesh into internal corners. As an alternative a vertical control joint detail may be used.

#### 10. **Mixing Basroc Panel Render**

- a. Prior to the application of Basroc Panel Render ensure that the substrate is clean and free of any impurities that may compromise adhesion.
- b. Add approximately 4 litres of clean water to a suitable mixing vessel and slowly add Basroc Panel render powder whilst stirring.
- c. The use of a power stirrer is recommended however manual stirring will suffice.
- d. Continue stirring until all lumps have been dispersed.
- e. Add water until the desired consistency has been achieved.
- f. Allow product to sit for 20 minutes to fully hydrate and remix to ‘fluff’ up the product to improve workability.
- g. The final mix should hold a soft peak on the hawk.
- h. Mixing the material too wet or stiff will make the material difficult to apply and finish up.

11. **Applying Basroc Render** – Rendering must occur within two weeks of installation of Basroc panels and must not be carried out when panels are wet (e.g. from dew, rain or frost).

Application should be in accordance with the manufacturer’s specifications. Please refer to the render bag for these specifications.

- a. In the first render coat embed a layer of Basroc Fibreglass Mesh into the render over the entire surface of all panels. Install Basroc Fibreglass Mesh across all joints (except control joints) ensuring that it overlaps the sheet by 100 mm. This must be embedded into the base coat of the render while wet.
- b. Once cured apply additional coats of the Basroc Render System (total 2 coats minimum) in accordance with the manufacturer’s specifications.

#### 12. **Applying Basroc Texture** –

- a. Prior to commencement of work, ensure a test panel has been completed and approved for both colour, texture, and surface finish.
- b. Ensure that the basecoat is cured, clean, dry and free of any impurities that may compromise adhesion.
- c. Loose and flaky material must first be removed prior to application.
- d. Application should be in accordance with the manufacturer’s specifications. Refer to the texture bucket for specifications.

#### 13. **Sealant (by builder or other party) - should be applied in the following areas:**

- a. around windows and other penetrations;
- b. where Basroc and any other substrate meet; &
- c. at control joints.

#### Warranty:

When applied in accordance with the above specification, Basroc will provide a 7 year materials warranty against peeling & delamination. This warranty does not cover workmanship or product failure caused as a result of hydrostatic pressure, entrapped moisture or structural/substrate/joint movement

#### Disclaimer:

Basroc, its staff and distributors will not accept responsibility for any failure caused as a result of factors beyond our control including but not limited to onsite handling, preparation or application of this product.

Application of this product should only be performed by qualified trades people trained in the use of this type of product. Information supplied in this publication is based on our testing and experience and is given in good faith.

Where used outside of the scope detailed above, suitability of this product should be independently determined prior to use.

Basroc will not warrant job defects caused as a result of but not limited to, structural/substrate movement or entrapped moisture. Building movement and structural dynamics is beyond the scope and control of Basroc. Accordingly, stresses and joint/substrate movement cannot be contained by the application of the decorative finishes detailed in the above specification.

In some circumstances, surface undulations, joints and panel deformation may be visible under glancing light conditions. This will result in the sun casting visible shadows over the joints in the wall. These imperfections may be extremely difficult to detect during application or at all other times. Glancing light occurs at certain times of the day when the sun's rays are nearly parallel to the surface. This will cause the casting of long and exaggerated shadows across the wall surface, most evident across taped or reinforced joints. As hand applied finishes are always susceptible to the minor undulations which cause these effects, glancing light issues are outside the control and/or scope of this specification.

Basroc shall not be liable for surface staining, degradation or loss of adhesion resulting from contact with moisture from behind the face of the finished coating. Ensure capping's and downpipes are installed/replaced immediately after the application of the render/coating.

Colour change is a natural part of the weathering of applied finishes and is excluded from warranty terms.

Sufficient quantity of texture coating or paint/membrane required to complete a project must be purchased in a single order to minimise the risk of colour and or texture inconsistency. Always cross-batch drums on site prior to application to optimise colour/texture uniformity