



Superior Exteriors

# INSITU CONCRETE FORMWORK

## Substrate preparation and RSA Coating Systems product application information

**RSA Flexirender and RSA Roll-On and Trowel-On Acrylic Textures are all suitable for application over correctly prepared insitu concrete formwork.**

### PREPARATION

**Cleaning:** Ensure all wall panels are dirt and dust free. Brush down with a stiff broom and wash walls if necessary. Scrape off any dags of foreign build up and ensure a smooth surface prior to application of any products

**Cleaning During Application:** Should any RSA product get onto surfaces that are not to be coated, clean the surface immediately with clean water. It is the applicator's responsibility to use the correct cleaning technique and product/s for each surface and to ensure the product is removed without damaging the surface. **Note:** The clean up process must be carried out during each stage of the application of product/s.

### PATCHING COATS STANDARD JOINTS

#### Option One Acrylic System – For Roll On Texture Systems and Systems With Less Than 2mm Acrylic Top Coats

##### Base Coat

- 1** The base coat to butted sheet joints should be filled with RSA Patch Fine (Patch Fine requires the addition of 10% cement to the volume being used).
- 2** Bed 48-50mm non-adhesive fibreglass mesh into the wet material. Push RSA Patch Fine right into the joint and cover mesh.
- 3** The base coat should be left to dry for a minimum period of four hours prior to application of the Top Coat – to allow for shrinkage.

##### Top Coat

- 1** A second coat of RSA Patch Fine should then be applied across the joint to a standard trowel length either side of the centre of the joint, with care taken to feather out edges and leave enough patch at the centre of the joint – to avoid exposing the mesh and to allow for shrinkage.

##### Sanding

Sanding of all joints should commence 24-36 hours after application of the topcoat. A light sanding of the belly of the joint where excess patching compound remains after shrinkage is appropriate.

#### Option Two Cementitious System Unsuitable For Systems With Less Than 2mm Acrylic Top Coats

##### Base Coat

- 1** Apply RSA Multiprime to a standard trowel width either side of each joint to be set.
- 2** The base coat to butted sheet joints should be filled with RSA Set and Prep.
- 3** Bed 48-50mm non-adhesive fibreglass mesh into wet material. Push the well into the joint and cover mesh. Apply a tight second coat of RSA Set and Prep mix to ensure mesh is completely covered and taper out either side.
- 4** The base coat should be left to dry for 24hrs prior to application of the top coat.

##### Top Coat

- 1** Apply a coat of RSA Fine Patch across the joint to a standard trowel length either side of the centre of the joint, with care taken to feather out edges and allow for shrinkage.

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### Sanding

Sanding of all joints should commence 24 hours after application of topcoat and not be left for any longer than 36 hours. A light sanding of the belly of the joint (where excess patching compound remains) after shrinkage is appropriate.

### Setting of Aluminium Corners

If aluminium corners are part of the insitu wall system a Primer Coat/Key Coat over aluminium corners is necessary to:

- Seal the metal and to;
- Create a key for patching compounds.

### Key Coat

Apply RSA Multiprime by roller across the surface of the aluminium corner plus a roller width onto the insitu sheet butting onto the corner. This will provide a key prior to the application of RSA Flexirender and Acrylic Trowel-On Texture systems

### Base Coat

- 1 Apply the base coat to completely cover metal corners (at trowel width to sheet side of exposed joint) using RSA Patch Fine. **Note:** RSA Patch Fine requires the addition of 10% cement.
- 2 Bed 143-150mm non adhesive fibreglass mesh into wet material at the centre of the joint.
- 3 The base coat should be left to dry for a minimum of six hours prior to application of top coat to avoid shrinkage.

### Top Coat

- 1 A top coat should be applied over the joint and onto the insitu sheet to a minimum width of 450mm from external corners. Care should be taken to not belly out the middle of the joint. A large trowel or broad knife is recommended for application.

### Sanding

Sanding of all joints should commence 24-36 hours after application of topcoat. A light sanding of the belly of the joint where excess patching compound remains after shrinkage is appropriate.

## BROAD WALL APPLICATION SYSTEM

### Primer Coat

RSA Multiprime should be applied evenly to the entire wall area where the coating system is required, using a lambs wool roller sleeve. Cutting in with a paint brush is required in areas not covered with the roller.

Allow a minimum of three hours drying time prior to over-coating the primer with the remaining RSA system over Insitu Concrete Formwork. Where Roll-On Textures are to be applied, RSA Multiprime should be tinted to the chosen finished colour.

**Note:** The Primer coat applied evenly across the entire surface will assist in evening the suction, provide a key for subsequent products, assist in minimizing joint visibility when patching process has been completed to specification, and improves the opacity and overall consistency of the finish. Joints may still be visible on completion of the render/texture/paint system depending on the level of finish and the chosen acrylic finish.

The primer coat may not be necessary if a base coat of acrylic render is applied prior to the application on the texture finish (such as Level 4 finishes). Any pack out or other patching process to the face of the substrate should be carried out prior to the primer coat. Please ensure drying times are stringently adhered to, for best results.

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### Acrylic Coat

We recommend the following Levels of Finish for Insitu Concrete Formwork:

**LEVEL 1:** Trowel-on Acrylic Texture finish.

**LEVEL 2:** Flexirender Base Coat plus Trowel-on Acrylic Texture Finish (Roll-on Texture is also an alternative over the base coat on Level 4).

Please refer to individual [product data sheets](#) and [application guidelines](#) and [specification sheets](#) with diagrams for further product and application information.

### Protective Coatings

Apply two coats of RSA Rapid Shield Matt (depending on the chosen aesthetics and preferred level of protection).

#### Notes

- For higher levels of finish and for better aesthetic results apply 1-2 coats of RSA Flexirender as a base coat (by steel trowel), prior to selected texture finish. Alternatively, RSA Flexirender is a finish in itself (one x tight coat followed by a subsequent coat of RSA Flexirender to an overall 2-4mm build, floated with a polystyrene float and sponge finished).
- If patching of joints, pack out processes or a trowel-on product such as RSA Flexirender is desired, a higher level of skill will be required.
- All substrate expansion, control and movement joints must be continued through the render system.
- Under critical light conditions, joints and other irregularities may be noticeable through the coating system. Where this is not acceptable, another RSA coating system should be selected.
- Please see relevant [RSA Data Sheets](#) for comprehensive product and application information in relation to the products required for this system

### PACK OUT PROCESS PRIOR TO APPLICATION OF RENDER SYSTEM (If Required)

- 1 Assess wall straightness.
- 2 Where large or deep voids are present, coat the area to be packed out with RSA Render Bond diluted with water (50/50 ratio).
- 3 Add three litres of water to a bucket. Mix together RSA Set and Prep.
- 4 Trowel-on the mix to fill in the void up to a depth of 10mm in even coats, no more than 4mm per coat.
- 5 Rule off/shave back the material to bring the void area true to the rest of the substrate.
- 6 Splash the material with water off a water brush if required, and float finish.
- 7 Leave to dry for 24 hours.
- 8 Top with RSA Patch Fine (plus 10% cement) and extend further than the pack-out area, taking care to even out the surface across the wall. Feather out and carefully remove ridges and trowel marks.
- 9 For uniformity, light sanding should commence 24 hours (but not longer than three days) after application of the topcoat.

### CLEAN UP

Clean all equipment immediately with water.

### LIMITATIONS

- When applied as a thin section render, the product cannot be expected to hide substrate imperfections. The products will not remedy poor quality substrate installations.

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- When applied over previously painted/coated acrylic surfaces no guarantee is implied in regard to the soundness or suitability of the surface where an application of render is required. It is the responsibility of the person applying the coatings to assess suitability of the substrate and to advise their clients as required, to the possibility of failure of the previous coating system.
- RSA products are not a substitute for good solid plastering trade practices. It is the plasterer's responsibility to assess each project to determine 'best practice'.  
**If in doubt, phone 07 3412 8111.**

### PRECAUTIONS

- RSA products should only be applied when weather conditions allow.
- Protect freshly applied products from high winds, freezing and temperatures below 5°C for 48 hours after application. The products should also be protected from rain for up to 48hrs after application.
- RSA products should only be applied within a temperature range of 5-35°C.

**DISCLAIMER:** The information relating to the application of the above products is given in good faith based on our current knowledge and experience of the product when properly stored, handled and applied. We cannot guarantee the product will be suitable, effective or safe when used for any purpose other than the stated uses. To the extent that it is lawful, we exclude warranties implied by law and limit our liability to the cost of replacing the product. We accept no liability for loss or injury caused by improper use, incompetent preparation, inexpert or negligent application, or ordinary wear and tear.

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