



# Substrate Preparation and Product Application Information

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## Application of Set and Prep Multipurpose Adhesive

### PRODUCT DESCRIPTION

*Set and Prep* enables Solid Plasterers to effectively 'mud on' and straighten beads and offers a superior bond compared with the use of liquid nails.

*Set and Prep* is a specially formulated, polymer modified, cement based building adhesive which requires only the addition of clean water. The product contains a special bonding agent which gives the product superior strength and integrity. Rigorously tested for compatibility with all RSA cement and acrylic based products, *Set and Prep* provides excellent adhesion and cohesion.

*Set and Prep* has been developed as part of a comprehensive render system where PVC beads and trims are to be used. Unlike other methods used for adhering beads, *Set and Prep* is guaranteed not to be affected by moisture ingress or alkalinity. The unique blend also gives the Solid Plasterer peace of mind that maximum adhesion will be achieved - '**Set and Prep sticks to the PVC and render sticks to Set and Prep!**'

### RECOMMENDED USES

- *Set and Prep* is typically used to install all high quality UV stabilised PVC corner beads and trims to all substrates that are designed to be rendered.
- *Set and Prep* can be used as a setting compound over fibre cement sheeting when installed to manufacturers recommendations and when used in conjunction with a minimum 2mm RSA acrylic texture system. (please refer to application guidelines for further information).
- *Set and Prep* can also be used as a 'tight coat' on properly prepared and sealed, difficult substrates such as concrete, sound acrylic paint and other low suction substrates.

### SUITABLE SUBSTRATES

When applied in accordance with the most recent RSA written information, *Set and Prep* is suitable for multi purpose applications including;

- Polystyrene (EP) building substrates
- AAC Hebel
- Clay bricks
- Concrete blocks
- Recessed Fibre Cement Sheeting
- Off form concrete
- Concrete tilt panels
- Sound previously painted (acrylic) surfaces

**Note:-** *Set and Prep* is also suitable for fibreglass mesh applications when used over expanded polystyrene and AAC Hebel substrates as a 'stress point' reinforcement bedding coat.



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## PREPARATION

*Set and Prep* can generally be applied direct to new, suitable for render building substrates, without the need for 'splash'/'dash'/'key coats. However, correct substrate treatment as per relevant *RSA* information is essential to product performance and integrity.

- **Cleaning:** Ensure all surfaces to be coated are sound, clean, dry, free from dust, oil, release agents, loose material, efflorescence and/or other contaminants. Remove all mortar dags and protrusions and either brush down with a stiff broom or wash/pressure clean the substrate as required, prior to the application of any products.
- **Masking:** For all surfaces not to be coated (windows, doors, roofs, finished floors etc) we recommend masking or covering them prior to any application. **Note:** We recommend using only high quality, long life masking products.
- **Cleaning During Application:** Should any *Set and Prep* fall onto surfaces that are not to be coated, clean the surface immediately with clean water. It is the applicators responsibility to use the correct cleaning technique and product/s for each surface 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 all product/s.

### Concrete and Low Suction Surfaces to be sealed as follows:

1. Mix a 1:1 solution of *RSA Render Bond* and water, then add *RSASet and Prep* powder to make a slurry. For example:- Into 15 litre bucket pour four litres of water and four litres *Render Bond* and stir together. Then whilst gently stirring with a mechanical mixer add two X 4 litre buckets full of *Set and Prep* powder. Apply the slurry by roller or brush agitating the mix continually whilst applying. Restir solution every few minutes during application.
2. Apply the slurry by roller or brush agitating the mix continually whilst applying. Restir solution every few minutes during application.
3. Render may be applied whilst "tacky" or completely dry.

## CORNER BEADS AND TRIMS

Whether a substrate/system requirement or simply the preferred option, corner beads and trims must be installed using *Set and Prep*. It can be used on all substrates that are suitable for render or texture applications. We only recommend the use of *RSA* approved, high quality, UV resistant PVC corner beads and trims.



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## THEORETICAL COVERAGE

Application of Beads & Trims - Approximately one to two 20kg bags of *Set and Prep* will be used per box (150 lineal metres) of beads or trims depending on the straightness of walls as well as application and installation method.

Recessed Joint Application - Application method and depth of joint will determine volume of material used. A general guide is one bag of *Set & Prep* will finish between 80 – 140 lineal metres of recessed joints.

**Note:** The theoretical coverage is based on a true flat substrate that has no recesses or voids with minimum suction (porosity) and depends on application techniques.

## MIXING Set and Prep

1. Slowly add *Set and Prep* to 3.7 to 4 litres of clean, potable water whilst vigorously stirring with a suitable mechanical mixer (drill and paddle).
2. Mix for at least three minutes to activate additives.
3. Allow *Set and Prep* to stand for a minimum of five minutes to ensure the chemical reaction of additives occurs.
4. Remix *Set and Prep* for one minute whilst adjusting consistency with the addition of water or powder as required.

**Pot Life:** The pot life of *Set and Prep* is 2.5 - 3 hours.

**Re-Coat Time:** Where possible, RSA recommends allowing *Set and Prep* to dry for 24 hours. Same day re-coat time is dependant on many factors including *Set and Prep* thickness, site conditions, substrate and climatic conditions. Please refer to the table below as a guide.

Porous, unsealed surface on hot day in sunlight:- 1-2 hours

Non-porous, sealed surface on cool day in shade:- 3-6 hours

## APPLICATION GUIDE

### For Bead and Trim Applications

*Set and Prep* can be applied by scoop, trowel and/or specialised heavy duty caulking gun directly into the bead or trim or applied directly to the substrate. **Note:** We recommend that when applying *Set & Prep* over fibre cement sheeting as an adhesive for pvc beads. RSA *Multprime Grit* should be applied to the surface to be coated to prevent “flash drying” and ensure maximum adhesion.

### Installation of PVC Beads and Trims

1. Mudding Up:- Fill approximately  $\frac{1}{2}$  to  $\frac{3}{4}$  full, the entire length of corner bead or trim with *Set and Prep*. Alternatively apply *Set and Prep* to substrate surfaces.
2. Placing:- Carefully place the bead or trim onto substrate by hand or with a ‘shimmy’ (specialised corner bead tool), or other suitable straight edges.
3. Straight Edges:- All straight edges should be close in length but slightly shorter than the cut length of the bead or trim.



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## Installation of PVC Beads and Trims (continued)

4. **Straightening:-** Place shimmy or straight edge gently onto the bead/trim and gently slide the shimmy up the bead several times until bedded straight and/or plumb and level.
5. **Finishing:-** Remove excess *Set and Prep* from corner bead and trims 5-10 minutes after installation by using a soft brush. When removing excess adhesive ensure a fine smear of the *Set and Prep* is left on the 'triangular wings' of the beads to act as a key for subsequent coats.
6. **Drying Time:-** Overnight drying is preferred, however where this is not possible, allow the adhesive to dry for at least three hours or until beads/trims are firm prior to application of render.
7. **Set and Prep Curing Time:-** *Set and Prep* will be very firm after 24 hours and will continue to cure. Adhesion will continue for up to 28 days.

**Note:-** *Set and Prep* can be applied from 1mm to a maximum of 5mm in one or multiple coats. Total thickness should not exceed 5mm.

## Installation of RSA Expansion Joint Beads

1. Apply *Set & Prep* to either side of control joint at a minimum thickness of 2mm.
2. Bed the RSA expansion joint to either side of joint. Cut at appropriate length.
3. Plumb the expansion joint using a straightedge and/or spirit level.
4. Allow a minimum 6mm gap between each expansion bead.
5. Clean down excess material on beads by using a damp paint brush or similar.
6. Ensure expansion joint is clean and free of any excess material.
7. Once firm to touch, "feather" out either side of expansion joint at least a trowel width back to the wall it is being applied to.
8. A flexible joint sealant should be used to fill the expansion joint and can be flushed or scalloped depending on aesthetic preferences.

## Application as a Setting Compound over FC Sheeting

1. Apply RSA *Set & Prep* by either trowel or spatula.
2. Whilst material is wet "bed" in 50mm 160gsm alkaline resistant, non adhesive mesh into coated joint.
3. Immediately "flush" joint with second coat of *Set & Prep*.
4. Alternatively where a smoother finish is required, allow the first coat of *Set & Prep* to thoroughly dry and apply RSA patch fine with the addition of 10% GP Cement as the second coat and "feather" out a trowel width each side of joint.

## Application as a 'Tight Coat' over Concrete or Low Porosity Substrates

1. Follow sealing process.
2. Apply a 'tight coat' (1-1.5mm) of *Set and Prep* and allow to firm up.
3. Roughly float the applied coating ensuring a suitable surface prior to application of finishing coats.
4. Apply a 2-3mm coat of *EP, Traditional* or *Masonry* render, mixed with the addition of 5% *RSA Render Bond*.



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## CLEAN UP

Clean all tools and equipment with water after application.

## LIMITATIONS

- When applied as a “tight coat”, *Set and Prep* will not achieve conventional aesthetic qualities and cannot be expected to hide imperfections, or remedy poor quality substrate installations.
- *Set & Prep* should not be applied over silicone coated surfaces.
- *Set and Prep* is 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 3287 6444.

## PRECAUTIONS

- *Set and Prep* should only be applied when weather conditions allow
- In hot and windy conditions it is recommended to seal the surface to be coated using RSA Multiprime Grit to avoid “flash drying” and re-wet at least twice a day for one day with clean water.
- Protect fresh render from high winds, freezing and temperatures below 5°C for 48 hours after application. The surface should also be protected from heavy rain for up to 8hrs after application.
- *Set and Prep* should only be applied within a temperature range of 5-35°C.

## STORAGE AND DISPOSAL

*Set and Prep* should be stored in a cool dry environment on a timber pallet base. Avoid storing in areas of high humidity or excess moisture as this may affect the contents and shorten shelf-life. The product has a shelf life of up to 12 months when stored correctly. Do not empty into drains. Spills may be vacuumed or swept up. Avoid generation of dust. This material and its package must be disposed of in a safe and environmentally responsible way.

## SAFETY - SAFE HANDLING

*Set and Prep* contains cement and as such all due precautions are to be taken when handling cement based products. Cement products are classified as non-hazardous under general use and safety guidelines. Materials containing Portland cement are alkaline in nature and during their use avoid inhalation of dust and contact with the skin and eyes. Appropriate protective clothing including gloves, dust mask and eye protection (conforming to Australian Standards) should be worn at all times when handling this product.

**For a Material Safety Data Sheet, technical or further information please contact 07 3287 6444 or visit [www.render-systems-australia.com.au](http://www.render-systems-australia.com.au)**

**DISCLAIMER:** The information relating to the application of *Set and Prep* is given in good faith based on our current knowledge and experience of the product when properly stored, handled and applied. We cannot guarantee that *Set and Prep* 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.