



Substrate Preparation and Product Application Information

For RSA Coating Systems Over AAC Hebel

RSA strongly recommend the use of our 'full' render, texture paint systems over AAC Hebel. We DO NOT recommend mixing and matching different products from different manufacturer's as part of a coating system - as they have not been tested for adhesion or cohesion with RSA products.

PREPARATION

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 Hebel adhesive dags and protrusions and brush surfaces down with a stiff broom prior to the application of products.

Masking:- For all surfaces not to be coated (windows, doors, roofs, finished floors etc) we recommend masking, covering or otherwise protecting the surface prior to any application.

Note: For masking, we recommend only the use of high quality long life masking 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.

SUBSTRATE CHECK

Ensure the substrate has been installed in accordance with the manufacturer's instructions and in accordance with good building practices, paying particular attention to the positioning of control joints. The success and integrity of the coating system is dependant on the quality and installation of the substrate.

SUBSTRATE PREPARATION AND HYDRATION

Correct treatment of the building substrate and hydration of cement based products assists the development of high early hardness, reduces the likelihood of 'shrinkage cracking', and assists the render to achieve full strength and long term integrity when applied correctly.

The hydration process starts prior to the application of render coats by using the correct substrate preparation technique.

It is absolutely critical to correctly seal AAC Hebel surfaces prior to the application of *EP Render* coats, as this limits water loss from the render to the substrate. In turn, it also keeps the water in the freshly applied render (reducing the likelihood of 'plastic shrinkage cracking') and eliminates the need to cure the render after application.* See CURING section.



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Sealing

AAC Hebel must be sealed with a 1:1 mix of *RSA Render Bond* and water (e.g. Into a 15 litre bucket pour 6 litres of water and add to the water 6 litres of *Render Bond* and stir with a mechanical mixer). Best results are achieved when the sealer is applied at least 24 hours prior to the render application.

1. Mix equal parts of water and *RSA Render Bond* (e.g. 6 litres of water to 6 litres of *Render Bond*) and stir in with a mechanical mixer to make an economical sealer.
2. Liberally apply the sealer by roller, brush or pressure/spray pack to the Hebel substrate
3. The sealer must be allowed to dry for a minimum of 2 hours, however best results are achieved (and allows more working time of the *EP Render*) when the sealer is applied at least 24 hours prior to the application of render.

CORNER BEADS AND TRIMS

For detailed installation information refer to the RSA document - *Substrate Preparation and Application for Bead, Mesh, Trim and Skim Applications Using Set and Prep*.

3.5, 4.5 or 6mm corner beads and trims can be installed, or may be required as part of a substrate coating specification. In either case *RSA Set and Prep must be used to install* high quality, RSA approved, UV resistant PVC corner beads and trims

Note: 2.5mm beads and trims should not be used on AAC Hebel substrates. 2.5mm beads and trims are only suitable for use on fibre cement (FC) sheeting. FC sheeting should be rendered with pure acrylic renders or textures. The pure acrylic renders and textures have the ability to perform at 1-1.5mm thickness- which is the actual applied coating thickness over the wings of 2.5mm beads and trims. No commonly used cement based render is designed to be applied at this minimal thickness.

MIXING EP RENDER

Note:- If the mixing process is not followed the render may:-

- **Set up fast and be difficult to apply.**
 - **'Go off' too quickly on the wall.**
 - **Be difficult to float and finish.**
1. For pump use, mix the render according to the pump manufacturer's recommendations. If the machine requires you to add dry mix please do so. For wet mix machines refer to point two below.
 2. Slowly add *EP Render* to 3.7 to 4 litres of clean potable water whilst vigorously stirring with a suitable mechanical mixer (drill and paddle).



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MIXING EP RENDER (Continued)

3. **Mix the render for at least 3 minutes to activate additives.**
4. **Allow *EP Render* to stand for a minimum of 5 minutes to ensure that the chemical reaction of additives occurs.**
5. Remix the render for 1 minute whilst adjusting the consistency via addition of water or render as required.

Pot life:- The pot life of mixed *EP Render* when left in the shade is 2-2.5 hours.

APPLICATION INFORMATION

EP Render can be applied in one or multiple coats depending on substrate requirements. For single coat applications, it is important to note that if floating is done too early:-

- shrinkage may occur - highlighting Hebel joints, substrate imperfections and promoting 'plastic shrinkage cracks' in the finish.
- the bond of the render to the substrate may be reduced or can be eliminated completely resulting in unsound 'drummy' sections of render.

Hand Trowel

EP Render is ideal for all hand trowel applications and is designed to be easy to apply, straighten, screed and float finish. Due to the extended pot life/'hang time' of the product, the plastering crew can mix more bags at a time, apply and finish more area and enjoy increased productivity, render strength and integrity.

Render Pump

EP Render is ideal for all machine (render pump) applications and is designed to pump consistently, respond well to darbying and screeding and remain easy to float. Due to the extended pot life/'hang time' of the product, the plastering crew can apply and finish more area and enjoy increased productivity, render strength and integrity.



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Application Procedure

1. 3.5, 4.5 or 6mm corner beads and trims should be installed using *RSA Set and Prep*
2. Lightly bed/trowel in 300mm X 500mm strips of RSA approved 160gsm alkali resistant fibreglass reinforcing mesh on a 45 degree angle over and under (where applicable) all openings and stress points into approximately 1.5mm thickness of *RSA Set and Prep* and feather out. (see Diagram A below). Allow to dry for at least three hours or until firm prior to over-coating.

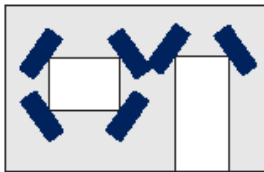


Diagram A - Place reinforcing mesh on a 45 degree angle.

3. Apply *EP Render* by trowel or pump in one or two coats (from minimum of 4mm to maximum total thickness of 8mm), flatten, straighten and/or screed the render to the required 'straightness/trueness' and float finish. Allow *EP Render* to harden for a minimum of 24 hours prior to the application of selected trowel-on acrylic.
4. Apply selected RSA acrylic render or trowel-on texture ensuring a minimum 1mm dry film thickness (DFT) of trowel-on acrylic is applied.
5. Apply two coats of selected RSA roll-on finishing product such as *955 Impact Paint*. Prior to the application of RSA paints such as *955 Impact Paint* or roll on coatings the substrate must contain less than 15% Wood moisture Equivalent (WME).

Notes:

- Total render coating thickness must not exceed 8mm over AAC Hebel.
- Control/expansion/movement joints in all substrates must be carried through the trowel-on coating system to a minimum width of 10mm.
- As per standard solid plastering practice it is important to **apply render in even coats** e.g. 4-6 or 6-8mm. **Do not apply from 4-8mm in a single coat** to remedy poor substrate straightness. When render is applied at varying thicknesses on the same surface the render will dry out at different rates increasing the chances of 'plastic shrinkage cracking' in the render finish.

*CURING

Due to the sealing or hydrating of the substrate prior to application of *EP Render*, curing is only necessary when it is applied in hot, dry (low humidity) and/or windy conditions and where high early/overnight hardness of the finish has not been achieved. In these instances it is necessary to assist the curing process by soaking the render once or twice a day for the first two days.



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OVER-COATING

When over-coating with RSA trowel-on acrylic renders or textures, application may commence 24 hours after completion of *EP Render*.

Prior to the application of RSA paints such as *955 Impact Paint* or roll on texture coatings the substrate must contain less than 15% WME.

CLEAN UP

Clean all equipment immediately with water.

LIMITATIONS

When applied, the products cannot be expected to straighten unlevel substrates. The product will not remedy poor quality substrate installations. 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 3287 6444**.

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.