



Project Details

Category: Heat Reflective, Decorative, Protective

Site	Area	m2	Site Address
Construction Company		Project Manager	
Reference Number		Date	
Certifier		Contractor	
Substrate: Rediwall Wall Panel		Premium: YES	Trade: DIY:
New or Repaint: New		Interior/Exterior: Ext & Int	

Specifications

Surface Preparation:

1. Ensure all panel installation has been completed by the panel installer. If unsure check with the Builder or Architect.
2. Ensure all expansion joints are completed and masked off. The acrylic render and texture system must not cover the sealants.
3. In seafront applications the texture system should be applied immediately after the panel installation to avoid the accumulation of salts on the panel. Salts can have an adverse effect on the long-term long term adhesion of the texture system.
4. If the panel has been allowed to stand unprotected in a coastal environment for any length of time, the panel should be thoroughly washed with clean water from the top down, allowed to dry and then immediately prepared and coated with the following texture system.
5. The panel and subsequent texture system must not be installed so as to allow contact with standing water.
6. For absolute beachfront applications that will be subjected to constant salt spray a texture finish manufactured with 100% pure marble aggregates or 100% acrylic polymer aggregate free textures are most suitable. The system must be top-coated with only waterproof elastomeric membranes to ensure the long-term watertight performance of the system.
7. The use of Energy Star Infrared Reflective wall finishes will allow for deeper tones to be used on Rediwall Panel. Energy Star will reduce the surface temperature of the panel and therefore thermal movement in the panel.

Cleaning:

1. All surfaces must be structurally sound, clean, and free from surface contaminants such as, dirt, dust, oils, grease, silicones and release agents.
2. Remove solid contaminants such as mortar splash with a wire brush or scraper.
3. Remove any salt residue from panels exposed in coastal environments. Using high pressure water cleaner, thoroughly wash the panel rinsing from the top of the panel down. Do not use detergent in the cleaning process as some detergents leave a surface residue that could interfere with the adhesion of the texture system.

Sealing of expansion joints:

1. Apply two coats of Astec Multi-seal over any polyurethane expansion joints. Multi-seal will act as a barrier to plasticizers that can migrate from the sealant to the elastomeric top-coats that with time cause staining and premature dirt pick-up over the joint.



Diagram 1 & 2

Surface preparation of Rediwall Panel:

1. The surface of the Rediwall Panel has a smooth sheen finish which must be treated prior to the application of the texture system.
2. Scuff / Scratch the entire surface with a low speed grinder fitted with a 200 mm course diamond grinding disk. See diagram 1 and 2.
3. The diamond disk must be sufficiently coarse so as to scratch, not sand the surface of the panel. The panel surface must have at least 90% scratch cover.
4. The electric grinder used **must be slow speed** as using to higher speed with the diamond disk will cause the surface of the panel to burnish smooth rather than the required coarse scratch.
5. The scratching should not be so deep so as to cause and structural defects in the panel.
6. Please consult a Rediwall Wall Panel representative if you are unsure of this procedure.
7. Remove any scuffing residue from the surface with a brush or compressed air.

Special Note: Suitable Products for levelling of the Rediwall Panel:

1. Rediwall Wall Panel is manufactured from rigid polymer and therefore can not be rendered level with traditional mineral renders such as sand and cement.
2. Astec manufacture an entire range of renders supplied in both wet and or dry form. But of the entire range there are only two special wet mix rendered that are designed to provide strong inter-coat adhesion to the Rediwall Panel.
3. No other renders other that those listed below must be used for direct adhesion to the Rediwall Panel.
 - a. Astec Armatex High Build Render
 - b. Astec Armatex Pre-patch Coarse.

1 st coat: Armatex High Build Acrylic Render (Base Coats)



Diagram 3

Application: Hawk and Stainless
Steel Trowel

Spread Rate m²/litre: 3.5 ltrs / m²
@ 2.5 mm DFT

Reducer/Wash-up: Water

Recoat Time Hours: 4-8

Application notes: *Read product technical data sheet.*

Armatex High Build is a 100% Acrylic Bound Render, filled with light weight insulating aggregates and special additives that promote strong adhesion to difficult substrates such as painted surfaces. The product can be applied at a thickness of up to 20 mm in one single application without the normal shrinkage cracks and drumminess associated with traditional sand and cement renders. As the product is light weight it allows for high build vertical applications with high resistance to slump during and after applications. See Diagram 3

The render is a water reducible compound that is supplied ready for use straight from the drum apart from the required addition of between, 3%-5% and up to 15% cement or fondu by weight for exterior use.

Mixing:

1. Mix 1 Kg, (5.6%) of fresh grey cement direct into 15 ltrs of High Build Render using a mortar mixer. Ensure that only fresh cement is used to avoid lumping.
2. It must be remembered that the Rediwall Wall Panel has no suction and therefore does not take water from the applied product. As a result, no additional water should be added to the mix.
3. To accelerate the product set in both cool weather and or for high film thickness applications, (20 mm), add 250 grams of Fondue along with the 1 kg of cement per 15 ltr tub of High Build Render.

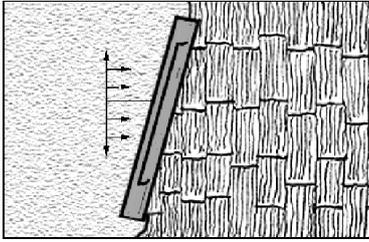


Diagram 4

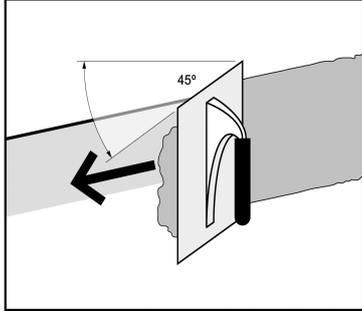


Diagram 5

Application:

1. The High Build Render should be applied between a minimum of 3mm and a maximum of 20mm in one coat. If addition coats are required allow the preceding product to fully cure before adding additional coats.
2. The product should be applied to the panel with firm pressure and then levelled true with a straight edge or feather edge darby. See diagram 4. Do not float the product as you will disturb the level finish achieved by the straight edge.
3. Apply any addition coats of High Build in the same manner as above until the desired thickness is achieved.
4. Any large surface misalignments of the Rediwall Wall Panel must be feathered before the render system is applied.

**Misalignments must be feathered at
100mm for each 1 mm of misalignment.**

5. The trowel or straight edge is placed across the misalignment with the front edge raised to a 45° angle. While maintaining this angle, the trowel is drawn along the section with even pressure. Misalignments should be feathered at a ratio of 100 mm for every 1mm of surface misalignment. (See Diagram 5).

2nd coat: Armatex Pre-patch Coarse and Rota Render 50/50 Onsite Blend

Application: Stainless steel trowel and Foam, Polypropylene or Diamond Float	Spread Rate Kg/m ² @ 1mm thickness: 1.55
Reducer/Wash-up: Water	Recoat Time Hours: 4-8

Application notes: *Read product technical data sheet.*

1. Ensure that the base coats of High Build Render are fully cured.
2. Mix Armatex Pre-patch Coarse and Rota Render at a ratio of 1:1 by volume. Pre-Patch Coarse is a wet mix supplied in a 15 ltr drum and Astec Rota Render is a dry mix supplied in a 20 kg bag. In a clean drum, add the Rota Render to the Pre-patch coarse while stirring with a mortar mixer.
3. Add water to the blend until the mix is a firm workable paste.
4. **It must be remembered that this product blend can not be used for direct adhesion to the Rediwall Wall Panel.**
5. Apply one tight coat of the pre-blend to the entire High Build Render surface. Allow the product surface moisture to settle and float smooth with a foam, polypropylene or plastic diamond float.
6. The product is applied in a single pass at between 3 and 5 mm thick dependant on the base coat surface condition and once finished provides an ideal low suction surface for the following texture coat.

3 rd coat: Armatex Texture Coating

Application: Trowel/Roll/Spray	Spread Rate m ² /litre: Refer Coverage Rates Below
Reducer/Wash-up: Water	Recoat Time Hours: 2-4

Application notes: *Read product technical data sheet.*

Armatex Textures are 100% acrylic water reducible texture pastes that are supplied in a ready to use form. They are available in a variety of different profiles that are manufactured from a blend of carefully graded aggregates and Astec second generation acrylics. They form a tough yet flexible mineral film with outstanding exterior durability. They provide strong adhesion to the substrate and are extremely well bound and will not crumble even when feathered to a very fine edge.

Armatex offers a range of texture profiles that can be either trowel, rolled or sprayed on to a suitably prepared vertical wall. The final result is a unique textured finish that transforms concrete, brick, fibro and many other construction materials into a decorative rendered wall appearance.

1. Select a texture with minimum profile of 1mm for use over this specified render system.

EXAMPLE 1mm Minimum Profiles:

Tuscany Trowel On (finish with plastic or foam float)
 R-40 Roll On (Medium Texture Cover)
 Cambridge Trowel On (finish with plastic or foam float)
 R-50 Roll On (Medium Texture Cover)
 Pastina Trowel On (finish with plastic or foam float)
 R-50 Roll On (Hopper Gun)
 Sirocco Roll On (Medium Texture Cover)

TEXTURE COVERAGE RATES;

The chart below is only a partial list of the textures available, consult Astec for further options and their individual data sheets.

Texture Name	m ² / ltr	m ² per 15 ltr tub
Coral Trowel On	1.0	15.0
Morocco Trowel On	1.1	16.5
Medium Stone Trowel On	0.9	13.5
1mm Trowel On	1.10	16.5
2mm Trowel On	0.50	7.50
Light Stone Trowel On	1.25	18.75
R-50 Roll On (Medium Texture Cover)	1.47	22.05
9mm Roll On (Coarse Texture Cover)	0.55	8.25

4th coat: Energy Star Dirtguard I.R. Elastic-F

Application: Brush/Roll / Spray-Roll. Spread Rate m²/litre: 4.5-5.5
 Use 9-20mm synthetic roller covers. Do not use lambs wool covers.

Reducer/Wash-up: Water Recoat Time Hours: 2-4

Application notes: *Read product technical data sheet.*

Energy Star Dirtguard I.R. Elastic-F is an Infrared Heat Reflective, **Crack Bridging** 100% acrylic, elastomeric waterproof membrane designed for the long term protection, durability and aesthetics of masonry walls. Dirtguard I.R. Elastic-F exhibits outstanding exterior durability and possesses the excellent elasticity and elongation properties necessary to bridge continually moving cracks without itself cracking or wrinkling.

1. To ensure a uniform result and eliminate the potential for "edge banding" always cut in the wall as you go. Do not cut in too far ahead so as to lose the combined wet edge with the area being rolled.
2. With a small stiff brush cut in the first 5mm then roll over the same area with an 80 mm roller loaded with product. Immediately roll the wall up to and over the cut in area so as the two wet edges can flow together.
3. Ensure that the roller covers used for both cutting in and rolling the wall are of the same profile and brand.
4. Apply one uniform coat to the entire wall ensuring good edge cover is achieved.

Application: Brush/Roll / Spray-Roll.
Use 9-20mm synthetic roller covers. Do
not use lambs wool covers.

Spread Rate m²/litre: 4.5-5.5

Reducer/Wash-up: Water

Recoat Time Hours: 2-4

Application notes: *Read product technical data sheet and prior notes for first coat application.*

1. Apply one uniform coat to the entire wall ensuring good edge cover is achieved.

Application Notes

1. Read product technical data sheet for all products that form part of this coating system.
2. Primer coats should be applied by brush and or roller or spray then rolled to work the primer coat well into the surface.
3. Do not commence product application when Relative Humidity is above 85%
4. Do not commence product application when the temperature is within 3°C of Dew Point.
5. Do not apply paint if the air or surface temperature is below 10°C or likely to fall below 10°C during the application and or drying period.
6. This is an abridged specification and must be read in conjunction with all preparation and application specifications on the Astec Technical Bulletins that relate to the products as specified.

NOTE COVERAGE RATES; The coverage rates on this specification supersede all other coverage rates expressed or implied by law or practice including coverage rates specified in any other Astec data sheets, labels, advertising literature or verbal statements made by Astec, its representatives or anyone associated with the sale of Astec products.

The coverage rates are given in good faith for guidance only of users, however, coverage rates can vary with substrate porosity, profile, application techniques and loss factors from spray application. Astec accepts no responsibility for any variation in coverage rates arising from factors beyond its reasonable control. Where product volumes are critical to the project, conduct a test patch that includes all application techniques to be used on the final substrate to determine the exact coverage rates before commencement of the project.