

COATING SYSTEM SPECIFICATION: MCS-180109-1

AFS REDIWALL CONSTRUCTION SYSTEM

Render & Acrylic Texture

Overview

AFS Rediwall® is a permanent PVC formwork system. The extruded components, depending on the selected profile either simply snap or slide into place, automatically interconnecting for rapid assembly and achieve an attractive, low maintenance wall surface.

Rediwall® requires almost no machinery-aided installation. In fact, installations can be undertaken without any training. And with its high quality semi-gloss finish it requires no additional finishing for most applications. Suitable as a tough, low-maintenance load-bearing solution for building subterranean structures such as basements and retention tanks, it can also be utilised for overhead applications such as party walls, columns and retaining walls, which makes it a truly versatile solution.

Materials Required

- > Macpatch Coarse
- > Macrender®
- > Hi-Build render mixed with 1 part Macbond: 2 parts water (for heavy build areas only >8mm)
- > Mactexture® Trowel or roller applied acrylic decorative finish
- > MAC SatinFlex elastomeric, pure acrylic membrane

AFS Rediwall®

AFS Rediwall® must be installed as per manufacturer's specifications. All construction and substrate details must conform with applicable building codes and regulations.

AFS Rediwall® Face & Joint Alignment

Ensure panel alignment is adequate to provide a true and flush surface for the application of the specified base coat. It is the AFS Rediwall® installer's responsibility to ensure all major misalignments and imperfections are addressed prior to rendering.

Control Joints

Control/movement joints must be positioned as per AFS Rediwall®/engineers recommendation. Control/movement joints must not be bridged by the base coat or finish coat system. As a minimum, MAC recommends the placement of control/movement joints at 5 metre max centres and at stress points such as in line with openings (window / doors), at all horizontal multi-levels, and at all interfaces of non-identical building construction materials.

Preparation of Substrate

- > Ensure surface is clean and free from contaminate which may adversely effect base coat adhesion.
- > Scuff the entire AFS Rediwall® surface with a 200 mm coarse diamond wheel fitted to a slow speed grinder. It is imperative that the surface is scratched and not sanded or burnished. Ensure no structural defects are caused to the AFS Rediwall® surface and that the AFS Rediwall® surface is worn thin.
- > Base coat is not to be applied until 95% of AFS Rediwall® surface has been suitably scuffed.
- > Remove loose plastic particles/swarf with a stiff brush prior to bond coat application.

Table 1.1 Coating Shedule - In Order of Application

PRODUCT	PURPOSE	SPREAD RATE / FILM THICKNESS	NOTES
AFS Rediwall® Construction System	Substrate	N/A	Install as per AFS Rediwall® Construction System Technical manual.
Macpatch Coarse (Add 3 litres of Macrender® to Macpatch Coarse prior to application)	Bond coat providing adhesion and limited flexibility.	2-4 mm	Apply over entire scuffed AFS Rediwall® surface and allow to dry a minimum of 4-8 hours prior to application of levelling coat. Must be mixed with Macrender® prior to application.
Macrender HBS	High bond strength render displaying improved adhesion to organic base coats such as Macpatch Coarse.	3-6 mm per coat	Apply over fully cured Macpatch Coarse + Macrender bond coat. Float to a level surface to accept acrylic trowel-on or roll on textured finish
Mactexture trowel or roller applied acrylic decorative finish	Provides a uniform textured appearance to the rendered surface.	0.6-2mm depending on type	Apply as per specific product data sheet.
SatinFlex	Flexible 100% acrylic membrane with good elongation and weather resistance.	Approx. 4 m ² / litre.	150 micron per coat. Two (2) coats required. <u>Selected colour must have a LRV of greater than 45%</u>

Application of Bond Coat

- > Mix 3 litres of Macrender® into 15 litres of Macpatch Coarse acrylic patching compound with a mechanical stirrer prior to use. Ensure homogenous mix and use immediately. Do not use or re-mix with water once material has started to set.
- > Apply at a thickness of approximately 2-3 mm, towelling smooth whilst ensuring 100% coverage over the scuffed AFS Rediwall® surface. Allow to dry a minimum 24 hours prior to application of levelling coat.

Application of Levelling Render

- > Ensure bond coat has been applied and allowed to dry for 4-8 hours depending on climatic conditions.
- > For areas requiring a build of >8mm, fill using MAC Hi-Build render with a Macbond:water ratio of 1:2. Do not apply >10mm per coat and allow to dry a minimum of 24 hours prior to over-coating.
- > Apply Macrender® HBS as a final levelling coat at a thickness between 3-6mm to bring the surface to a suitably flat finish ready for the application of the selected texture coating.
- > Do not apply Macrender HBS or Hi-Build render directly to the AFS Rediwall® surface.
- > Allow levelling render to cure for a minimum 4 days prior to application of Texture coating.

Application of Texture Coating

- > Apply selected Mactexture trowel-on or roll-on textured finish in selected colour as per product specific data sheet. Allow to dry for a minimum 24 hours prior to painting.

Finish Coat and Membrane Application

- > Apply two coats of SatinFlex Elastomeric 100% acrylic membrane in selected colour.
- > Dark colours must be avoided to reduce risk of thermal expansion/contraction leading to cracking in the coating system. Selected colour must have an LRV greater than 45%.

Materials Warranty

When applied in as a complete system in accordance with the above specification, MAC will provide a 10 year materials warranty against peeling and delamination. This warranty does not cover workmanship or product failure caused as a result of hydrostatic pressure or structural/substrate movement/breakdown. Change in colour of acrylic finishes is a natural part of the ageing process and is excluded from all warranty terms. See warranty for details.

IMPORTANT NOTE:

Melbourne Acrylic Coatings Victoria Pty Ltd, 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. Suitability of this product should be independently determined prior to use. MAC will not warrant job defects caused as a result of but not limited to, structural/substrate movement or entrapped moisture.

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