

Emer-Clad Architectural

Decorative and protective façade coating, water based acrylic, highly durable, elastomeric, waterproofing membrane with full colour range

USES

As a decorative, waterproofing membrane coating to most types of building facades, walls and roofs after the recommended primer/sealer application.

Emer-Clad is suitable for application to many common substrates including concrete, render, masonry, fibrous cement products, metals, timber and bituminous membranes. Some special priming may be required.

ADVANTAGES

- Proven track record for over 25 years
- Safe to use, water borne acrylic formulation
- Easy water clean up
- One component - readily applied direct from pail
- Excellent resistance to UV, weathering, chloride ions and CO₂
- Excellent build properties enable application to both horizontal and vertical surfaces
- Can be applied to a wide range of substrates
- Available in a range of colours - able to be colour matched
- Highly flexible - accommodates movement and minor cracking of substrates
- Excellent resistance to embrittlement
- Available in matt and satin finish



DESCRIPTION

The Emer-Clad system comprises a single component water based, high solids, acrylic copolymer waterproof membrane coating applied over a range of primers dependent on the substrate type.

Emer-Clad is available in either matt or satin finish.

Emer-Clad is a crack-accommodating coating containing additives to inhibit the growth of mould, resist bacterial growth and aggressive elements ie: UV light, chloride ion and carbonation attack.

Emer-Clad dries to form an aesthetically pleasing waterproof coating and may be applied by brush, roller or airless spray.

TECHNICAL SUPPORT

Parchem offers a comprehensive range of high performance, high quality products suitable for use within all aspects of the concrete repair and protection industry. In addition, the company offers a technical support package to specifiers, end users and contractors, as well as on-site assistance.

PARCHEM	CONCRETE REPAIR	FLOORING	JOINTING SYSTEMS	WATERPROOFING
TECHNICAL DATA SHEET	SEPTEMBER 07			
www.parchem.com.au	7 Lucca Road, Wyong NSW 2259	Technical 1800 812 864		ABN 801069 961 968

DESIGN CRITERIA

Emer-Clad is designed to be applied by brush, roller or airless spray over a selected primer, to achieve a dry film thickness of not less than 350 microns in two coats on vertical surfaces. Refer to application instructions for details.

PROPERTIES

Colour:	9 standard colours plus special colours made to order
Volume solids:	53% (Matt white) 45% (Satin white)
Physical or chemical change:	Dries through loss of water
Drying (25°C, 50% RH)	
Tack free:	30 minutes
Recoat:	2 hours
Fully dried:	7 days
Application temperature:	10°C - 30°C
Carbon dioxide transmission (Klopfer criterion R>50 m)	- Matt R = 266 m - Satin R = 266 m
Water vapour diffusion resistance (Klopfer criterion SD < 4 m)	- Matt SD = 1.65 m - Satin SD = 1.25 m
Water permeability: ASTM E514-7A:	Class E Highest resistance to water penetration
Exterior durability results on FC panels (GPC):	
Cape Shank (Coastal)	239 months
Port Melbourne (Industrial)	210 months
Yallourn (Industrial)	189 months
Darwin (Tropical)	233 months
No integrity failure on any of the panels at all the above sites - GPC Scientific Services Laboratory.	
ACOUSTIC DAMPENING	
Properties:	500 micron sample of Emer-Clad on Lysaght "Custom Orb" 26 gauge thickness corrugated steel sheet
Effective noise rise reduction:	2 - 7 dB
Chemical resistance:	Emer-Clad is unaffected by a range of mild acids, alkalis, and is resistant to bio-deterioration

MAINTENANCE

No special requirements, any damage identified during normal inspections should be repaired or replaced as appropriate.

SPECIFICATION CLAUSES

DECORATIVE WATERPROOFING FACADE COATING

The decorative waterproofing coating shall comprise a suitable primer system overcoated with Emer-Clad Matt/Satin, single-component elastomeric coating suitable for application by brush, roller or spray. The total dry film thickness of the coating shall be not less than 350 microns and shall be capable of providing carbon dioxide diffusion resistance equivalent to not less than 50 metres of air. It must exhibit a water vapour transmission resistance SD not more than 1.65 metres (Klopfer criterion) and achieve a Class E water permeability when tested to ASTM E514-74.

APPLICATION INSTRUCTIONS

SURFACE PREPARATION

CONCRETE, RENDER, BRICK, MASONRY, FIBRE CEMENT PANELS:

Thoroughly clean down surfaces by stiff brush, scraper, etc., to remove all laitence, dirt, dust or other contamination to leave sound, clean, dry surfaces free from all residues.

Use Emer-Patch (smooth) patching compound to fill minor cracks or level the surface. Fill cracks and joints with acrylic gap filler.

Prime: One coat of Emer-Acrylic Sealer or Emer-Coat Clear Sealer.

DAMP SURFACES - ENTRAPPED MOISTURE:

Seek technical advice from Parchem.

MOULD INFESTED SURFACES:

Scrape or clean thoroughly; all finishes lifting or badly infested should be removed. Wash down with a water-soluble fungicide or one part domestic bleach to eight parts water, scrubbed into the affected area, then rinsed clean of residues. Make good any defects and allow walls and repairs to completely dry.

Prime: One coat of Emer-Coat Clear Sealer.

IRON OR STEEL:

Grease or oil to be removed with degreasing solution. Wire brush/shot or sand blast metal. All dust/dirt to be removed.

Prime: One coat of Emer-Gard Primer Type 2.

Note: failure to properly coat the metal with primer will result in surface staining and/or significantly diminish the protection of the iron or steel.

RUSTY IRON OR STEEL:

Remove loose rust and paint particles with wire brushing. Sound areas of remaining paint should be roughened to obtain a good mechanical key. Loose flakes or corroded metal must be chipped away.

1st Coat: One coat of Emer-Tan rust converter

Prime: One coat of Emer-Gard Primer Type 2

ALUMINIUM/ZINC/COPPER/BRASS/GALVANISED IRON:

Oxidised surfaces and other contaminations should first be removed with Emer-Clean etch solution. Emer-Coat Special Primer may be used to further increase protection.

SOUND, PREVIOUSLY PAINTED OR PRIMED SURFACES:

Old paintwork to be thoroughly scrubbed with detergent and water, then sanded or wire brushed to ensure mechanical adhesion. All loose, flaky paint removed, and feather edges of remaining soundly adhering paint.

Prime: One coat of Emer-Acrylic Sealer.

TIMBER SURFACES:

Treat previously painted surfaces as above.

Prime: One coat of Emer-Acrylic Sealer.

Note: do not apply Emer-Acrylic Sealer over old oil based paints.

POWDERY PAINTWORK OR ABSORBENT MASONRY SURFACES:

Should be sealed with one coat of Emer-Coat Clear Sealer.

Prime: Two coats of Emer-Coat Clear Sealer.

ASPHALT, PITCH AND BITUMEN:

If the surface is sound, firm and not tacky.

Prime: Two coats of Emer-Bond Primer.

OVERCOATING OLD EMER-CLAD:

Clean the surface with mild detergent, rinse with clean water, allow to dry.

Prime: One coat of Emer-Acrylic Sealer.

APPLICATION

Apply Emer-Clad by brush, roller or airless spray to the previously primed surface.

Apply a minimum of 2 coats Emer-Clad protective coating to a total dry film thickness of approximately 350 microns. Coverage approximately 1.5 m² per litre finished film (ie 3 m²/l/coat). First coat to be Emer-Clad Matt. Final Coat to be Emer-Clad Satin or Matt (Satin exhibits better self-cleaning properties).

To visually facilitate coverage and ensure adequate film build, different colours may be used for each coat of Emer-Clad.

Note: do not apply any materials during damp or rainy conditions or where there is likelihood of rain. Temperatures above 30°C reduce the wet edge time and, as with other water based coatings, may increase the risk of showing lapmarks and rollermarks after drying, especially with darker colours.

Dark colours may show slight oxidation over time. This can be removed temporarily by cleaning, but will not affect the performance of the coating.

PRIMERS	COVERAGE PER COAT	DRYING	
		TIME @ 20°C	CLEAN
EMER -			
Coat Clear Sealer	7 - 8 m ² /L	2 - 3 hrs	Thinners*
Acrylic Sealer	12 m ² /L	2 hrs	Water
Bond	10-12 m ² /L	2 hrs	Water
Coat Special Primer	10-12 m ² /L	4 hrs	Thinners*
Gard Primer Type 2	10 m ² /L	2 hrs	Thinners*
Aquashield	6 m ² /L	16-24 hrs	Water
Tan	15 m ² /L	4 - 6 hrs	Water
TOP COAT			
Emer-Clad (2 coats)	3 m ² /L	2 - 4 hrs	Water

*Solvent 30

DRYING TIMES

At normal temperature, 18°C to 20°C, Emer-Clad will dry and can be recoated within 2 hours after application. In very cold or humid weather, allow overnight drying between applications. Do not apply at temperatures below 10°C, or when the temperature may fall below 10°C during the drying period.

COLOUR

Standard colours are shown on a separate Emer-Clad colour selection brochure.

Colour Matching: Emer-Clad is able to be colour-matched to most colours.

Emer-Clad is available in Matt or Satin finish.

CLEANING

Tools and equipment should be cleaned with water immediately after use.

ESTIMATING

The coverage figures are theoretical – due to wastage factors and the variety in nature of possible substrates, practical coverage figures may vary accordingly.

SUPPLY

Emer-Clad:	15 litre pail
Emer-Acrylic Sealer:	4 and 20 litre pails
Emer-Aquashield:	2, 4 and 20 litre pails
Emer-Coat Clear Sealer:	1, 4 and 20 litre pails
Emer-Patch Smooth:	15 litre pail

STORAGE

SHELF LIFE

All products have a shelf life of 12 months if kept in a dry, cool storage area.

STORAGE CONDITIONS

Store in dry conditions at temperatures between 5°C and 30°C in the original, unopened containers. If stored at high temperatures, the shelf life may be reduced.

ADDITIONAL INFORMATION

Parchem provides a wide range of complementary products which include:

- concrete repair – cementitious and epoxy
- grouts and anchors – cementitious and epoxy
- waterproofing membranes – liquid applied, cementitious and bituminous sheet membranes
- waterstops – pvc and swellable
- joint sealants – building, civil and chemical resistant
- industrial flooring systems – cementitious and epoxy
- architectural coatings
- filler boards – swellable cork, bituminous and backing rod
- ancillary products

For further information on any of the above, please consult with your local Parchem sales office.

IMPORTANT NOTICE

A Material Safety Data Sheet (MSDS) and Technical Data Sheet (TDS) are available from the Parchem website or upon request from the nearest Parchem sales office. Read the MSDS and TDS carefully prior to use as application or performance data may change from time to time. In emergency, contact any Poisons Information Centre (phone 13 11 26 within Australia) or a doctor for advice.

PRODUCT DISCLAIMER

This Technical Data Sheet (TDS) summarises our best knowledge of the product, including how to use and apply the product based on the information available at the time. You should read this TDS carefully and consider the information in the context of how the product will be used, including in conjunction with any other product and the type of surfaces to, and the manner in which, the product will be applied. Our responsibility for products sold is subject to our standard terms and conditions of sale. Parchem does not accept any liability either directly or indirectly for any losses suffered in connection with the use or application of the product whether or not in accordance with any advice, specification, recommendation or information given by it.

PARCHEM	CONCRETE REPAIR	FLOORING	JOINTING SYSTEMS	WATERPROOFING
TECHNICAL DATA SHEET	SEPTEMBER 07			
www.parchem.com.au	7 Lucca Road, Wyong NSW 2259	Technical 1800 812 864		ABN 80 069 961 968 4