

## Fire retardant protective coating for concrete and masonry surfaces

### Uses

On timber and all types of building boards, ceiling tiles, panelling etc. Over polyurethane and styrene foam insulation, pipe lagging or similar it provides a fire retardant, abrasion resistant, flexible skin that also withstands weather and wear.

### Advantages

- Dramatically reduces spread of flame
- Single component
- Water based
- Elastomeric coating
- Excellent weather and wear resistance

### Standards Compliance

Emer-Clad Firecheck has been independently tested in accordance with AS 1530 Part 3.

<b>Ignitability (0 - 20):</b>	0
<b>Spread of flame index (0 - 10):</b>	0
<b>Heat evolved index (0 - 10):</b>	0
<b>Smoke index (0 - 10):</b>	3

### Design Criteria

Emer-Clad Firecheck is designed to be applied by brush, roller or airless spray over a selected primer, to achieve dry film thickness of not less than 350 microns in two coats on vertical surfaces. To achieve correct protective properties Emer-Clad Firecheck must be applied to substrate at coverage rates recommended.

### Description

A single component, high solids acrylic copolymer coating applied over a range of primers dependent on substrate type. Dramatically reduces spread of flame and ignitability of surfaces to which it is applied. It has excellent weather, chemical and wear resistance and provides an elastomeric film that withstands substantial movement.

### Properties

<b>Solids:</b>	55%
<b>Physical or chemical change:</b>	Dries through loss of water
<b>Tack free time at 25°C 50% RH:</b>	30 minutes
<b>Recoat time at 25°C 50% RH:</b>	2 hours
<b>Drying time at 25°C 50% RH:</b>	7 days
<b>Application temperature:</b>	10 - 40°C
<b>Service temperature (continuous ambient):</b>	0°C - 50°C

### Maintenance

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

### Specification Clauses

#### Fire retardant elastomeric protective coating

The fire retardant elastomeric protective coating shall comprise a suitable primer system overcoated with Emer-Clad Firecheck a single component elastomeric coating suitable for application by brush, roller or spray. Total dry film thickness shall be not less than 350 microns.

The coating shall pass AS 1530 Part 3 when tested for ignitability, spread of flame, heat evolved index and smoke developed index.

### Application Instructions

#### Surface preparation

Before using Emer-Clad Firecheck, it is important to ensure surface which it is applied is clean, dry and free from dust and loose material. All contaminants such as oil, grease, fungi, stain or any surface laitance to be removed to ensure adequate development of bond when coating is applied.

#### Priming

##### Concrete, render, brick, masonry, fibre cement panels:

Thoroughly clean down surfaces by stiff brush, scraper, etc., to remove all laitance, 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 "non-moving" cracks and joints with acrylic gap filler. Moving joints should be sealed with Emer-Seal MS. Do not use polyurethane based sealants.

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 appropriate primer depending on substrate.

## 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:

A suitable metal etch solution to suit acrylic coatings may be required prior to priming with Emer-Bond Primer and application of Emer-Clad Firecheck. Adhesion testing is advisable.

## Sound, previously painted or primed surfaces:

Acrylic: On existing sound acrylic coatings, scrub with detergent and water, allow to dry. No primer required. If coatings are delaminating then remove all loose and delaminating coatings back to a sound firmly adhered edge then apply one coat of Emer-Coat Clear Sealer.

Enamel / Oil Based: Depends on underlying substrate. For steel, abrade and apply Emer-Gard Primer Type 2. Other substrates refer to your local Parchem sales office.

## 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.

## Overcoating old Emer-Clad:

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

No primer required if the existing Emer-Clad Firecheck is sound and in good condition. If existing Emer-Clad Firecheck is delaminating then remove all delaminating coatings back to a firmly adhered edge then apply one coat of Emer-Coat Clear Sealer.

## Application

Emer-Clad Firecheck may be applied by brush, roller or airless spray. Application using brush or roller requires laying material onto the surface, avoiding brushing out, to achieve the required film thickness per coat. A minimum of two coats are required on vertical surfaces to achieve total dry film thickness of approx. 350 microns. Product will be touch dry in approx. 30 minutes and may be overcoated after 2 hours drying under normal conditions. This can be assessed at the time of application and is influenced by ambient temperature and type of surface to be treated.

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

## Limitations

Do not apply to uncured concrete or while rain threatens, or at temperatures below or which may fall below 10°C during the drying period. Emer-Clad Firecheck is not recommended for surfaces subjected to hydrostatic pressure.

## Estimating

### Product Code

<b>561000</b>	Emer-Clad Firecheck White 20L
<b>561005</b>	Emer-Clad Firecheck White 15L
<b>561025</b>	Emer-Clad Firecheck Tint 15L
<b>561026</b>	Emer-Clad Firecheck Blue/Black 15L

### Supply

<b>Emer-Clad Firecheck:</b>	20 litre pails
<b>Emer-Coat Clear Sealer:</b>	1, 4 and 20 litre pails
<b>Emer-Proof Aqua Barrier:</b>	20 litre packs
<b>Emer-Gard Primer Type 2:</b>	1, 4 and 20 litre pails
<b>Emer-Acrylic Sealer:</b>	1, 4 and 20 litre pails

### Coverage

<b>Emer-Clad Firecheck:</b>	3.0 m <sup>2</sup> /litre/per coat
<b>Emer-Coat Clear Sealer:</b>	8 m <sup>2</sup> / litre
<b>Emer-Proof Aqua Barrier:</b>	1.5 m <sup>2</sup> / litre/per coat
<b>Emer-Gard Primer Type 2:</b>	12 m <sup>2</sup> / litre
<b>Emer-Acrylic Sealer:</b>	12 m <sup>2</sup> / litre

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

# Emer-Clad® Firecheck

---

## Storage

### Shelf life

12 months if stored correctly.

### Storage conditions

Storage 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.

### Important notice

A Safety Data Sheet (SDS) and Technical Data Sheet (TDS) are available from the Parchem website or upon request from the nearest Parchem sales office. Read the SDS 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.

**Emer-Clad**