

(Previously known as Emer-Clad Preparation Skim Coat)

Cementitious fairing mortar (0mm to 3mm thickness) to cover concrete surface imperfections

Uses

Emer-Patch Skim Coat is a cementitious fairing coat designed for application in thin layers to cover surface imperfections on vertical and overhead concrete or masonry surfaces prior to the application of Emer-Clad Facade. It can be applied to infill surface imperfections up to 3mm thickness.

Advantages

- Excellent bond to the concrete substrate
- Easy to use - no independent primer or curing membrane necessary
- Sandable
- Can be left exposed or can be overcoated with Emer-Clad Facade or other suitable coatings after 24 hours
- Can be used in conjunction with Emer-Patch High Build Repair and Emer-Patch Repair 40
- Suitable for internal or external use
- Only the site addition of clean water is required
- Contains no chloride admixtures

Description

Emer-Patch Skim Coat cementitious fairing coat is supplied as a ready to use blend of dry powders which requires only the site addition of clean water to produce a highly consistent cementitious fairing mortar.

The material is based on a blend of cements, graded aggregates, special fillers and chemical additives to provide a material with good handling characteristics, while minimising water demand.

Properties

The following results were obtained at a water:powder ratio of 0.3 by weight or 1:3 by volume at a temperature of 20°C.

| Test method | Typical result |
|-----------------------------------|--------------------------------------|
| Coefficient of thermal expansion: | $7 \times 10^{-6}/^{\circ}\text{C}$ |
| Working life: | Approximately 20 minutes** |
| Setting time (BS 4550): | 30 minutes - 1 hour** |
| Fresh wet density: | Approximately 1700 kg/m ³ |
| VOC content: | 5 g / litre |

** Note: working life and setting time will vary dependent on ambient and substrate temperatures and prevailing conditions.

Applications Instructions

Preparation

Clean the surface and remove any dust, unsound material, plaster, oil, paint, grease, corrosion deposits or algae. Roughen the surface to remove any laitance and expose the fine aggregate by light scabbling or grit-blasting.

Oil and grease deposits should be removed by steam cleaning, detergent scrubbing or the use of a proprietary degreaser. The effectiveness of decontamination should then be assessed by a pull-off test.

No independent priming system is required.

The cleaned areas should be blown clean with oil-free compressed air before continuing.

All prepared areas should be thoroughly soaked with clean water immediately prior to the application of Emer-Patch Skim Coat. Any residual surface water should be removed prior to commencement. Care should be taken and the work scheduled to ensure the water does not run onto areas of recently applied Emer-Patch Skim Coat less than 12 hours old. Under severe drying conditions repeated soaking may be necessary to ensure the substrate is still saturated at the time of application.

Mixing

It is important to ensure that Emer-Patch Skim Coat is thoroughly mixed using a spiral mixer. If mixing small quantities by hand, add 3 volumes of the powder (loose-filled to excess and struck off level with the top of the measuring container) to 1 volume of drinking quality water. This should be mixed vigorously until fully mixed through.

For larger volumes, place 2.6 litres of drinking quality water into the mixer and, with the machine in operation, add one full 9.5kg bag of Emer-Patch Skim Coat and mix for 3 - 5 minutes until thoroughly mixed. Dependent on the ambient temperature and the desired consistency, the amount of water required may vary slightly but should not exceed 3 litres per 9.5 kg bag of Emer-Clad Skim Coat.

Note: In all cases Emer-Patch Skim Coat powder must be added to the measured water.

Application

Apply the mixed Emer-Patch Skim Coat to the prepared substrate by steel trowel from a feather-edge up to 3 mm thickness. It should be applied with the minimum of working and be allowed to partly set before finally trowelling to a smooth finish. If a very smooth finish is required, a small amount of water may be flicked on to the surface with a paint brush prior to final trowelling. Do not apply this product when rainfall is imminent unless in a sheltered or protected situation.

Note: the maximum applied thickness of Emer-Patch Skim Coat is 3 mm.

Emer-Patch™ Skim Coat

Low temperature working

The material should not be applied when the substrate and/or air temperature is 5°C and falling. At 5°C static temperature or at 5°C and rising, the application may proceed.

High temperature working

At ambient temperatures above 35°C, the material should be stored in the shade and cool water used for mixing.

Curing

Emer-Patch Skim Coat does not require any form of curing in moderate ambient conditions, but under strong drying conditions curing may be necessary. In these conditions, tape down plastic sheeting around the perimeter over the repair job and leave until ready to overcoat.

In cold conditions, the finished application must be protected from freezing.

Overcoating

Emer-Patch Skim Coat may be overcoated with Emer-Clad Facade coating after a minimum of 24 hours. Refer to Emer-Clad Facade TDS for priming and application details. Other decorative paint top coats can be used as per the manufacturer's instructions for application on concrete surfaces.

Cleaning

Emer-Patch Skim Coat should be removed from tools, equipment and mixers with clean water immediately after use. Cured material can only be removed mechanically.

Limitations

Emer-Patch Skim Coat is not suitable for use on concrete subject to vehicle or foot traffic.

Emer-Patch Skim Coat should not be used when the temperature is below 5°C and falling. Do not proceed with the application when rainfall is imminent unless in a sheltered or protected situation. Exposure to rainfall prior to the final set may result in water uptake and severe reduction in the performance of the hardened product. The product should not be exposed to moving water during or after application.

Estimating

Supply

| | |
|-----------------------------|----------------|
| Emer-Patch Skim Coat 9.5kg: | FE400130-9.5KG |
|-----------------------------|----------------|

Coverage and yield

Approximately 5.7 litres / 9.5kg bag (1.9m² at 3mm thickness)

Storage

Shelf life

Emer-Patch Skim Coat has a shelf life of 24 months.

Storage conditions

Store in dry conditions in the original, unopened bags. If stored at high temperatures and/or high humidity conditions the shelf life may be reduced to 4 to 6 months.

Important information

A Safety Data Sheet (SDS) and Technical Data Sheet (TDS) are available from the Emer website. 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.



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Parchem Construction Supplies Pty Ltd
7 Lucca Road, Wyong NSW 2259
Phone: 1300 283 668
www.emer.com.au
ABN 80 069 961 968