

Emer-Patch Skim Coat on Aged Uncoated Substrate Concrete (Off Form, Tilt Up, Pre Cast) [Exterior] AU_SV17106

Proposed Purpose Of Use

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.

Scope Of Works

Emer-Patch Skim Coat is a cementitious fairing mortar (applied 0mm to 3mm thickness) used to cover concrete surface imperfections, such as pin holes and small voids. It can provide a high level finish to the substrate and be overcoated with a decorative coating system such as Emer-Clad Facade or can be left exposed.

Summary


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.

Substrate And Substrate Preparation

<p>Substrate Notes:</p>	<p>CONCRETE (Off Form, Tilt Up, Pre Cast)</p> <p>SUBSTRATE DESCRIPTION</p> <p>OFF FORM CONCRETE</p> <p>Off form Concrete is produced by placing suitable forms and shoring to hold the wet concrete into the required shape. Reinforcements are placed within or on the formwork to give concrete its strength. Once the formwork and shoring are removed the result is the off form concrete.</p> <p>TILT UP</p> <p>Tilt Up concrete is derived simply from the method of construction, wall panels are cast on a horizontal surface that then require lifting, and tilting vertically into their final position. Construction is commenced with the laying of the structures foundation and floor slab, wall panels are then cast on the floor one on top of each other in a stack arrangement.</p> <p>PRE CAST</p> <p>Pre Cast concrete are concrete panels that are cast on horizontal vibrating beds that are then cured in racks that are delivered to site that then require lifting, and positioned into their final position.</p>
<p>Substrate Preparation Notes:</p>	<p>PCO018 - OFF FORM, TILT UP, PRE CAST</p> <p>Off Form Concrete should be installed as per AS3610 Control of Concrete Surface Formwork (current edition) and AS 3850.2 Tilt Up Concrete & Pre Cast Elements for use in Buildings (current edition)</p> <p>SURFACE PREPARATION</p> <p>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.</p> <p>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.</p> <p>Larger depth repairs and voids in the concrete substrate should be filled using an Emer-Patch repair mortar and allowed to cure prior to applying the Emer-Patch Skim Coat.</p>

Expansion & Control Joints

Structural control or expansion joints should be filled using Emer-Seal Paintable FC joint sealant.

Coating System	
Coat Type:	Prep Coat
Datasheet:	AU_DV02696 Emer-Patch Skim Coat
Application Methods:	 Trowel
Coating Application Details:	<p>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-Patch Skim Coat.</p> <p>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.</p> <p>ADDITIONAL COAT If required an additional coat of Emer-Patch Skim Coat maybe applied to the previous coat following the same preparation and application process. Allow adequate drying time for the first coat before preparing and applying the second coat. The first coat of Emer-Patch Skim Coat should be brush or broom finished to promote adhesion between coats.</p> <p>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.</p> <p>HIGH TEMPERATURE WORKING At ambient temperatures above 35°C, the material should bestored in the shade and cool water used for mixing.</p> <p>CURING Emer-Patch Skim Coat does not require any form of curing in moderate ambient conditions, but under fast 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.</p> <p>OVERCOATING Emer-Patch Skim Coat may be overcoated with Emer-Clad Facade after a minimum of 24 hours. Refer to EmerClad 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.</p>
Additional Coating Details:	<p>Working life: Approximately 20 minutes** Setting time (BS 4550): 30 minutes - 1 hour**</p> <p>** Note: working life and setting time will vary dependent on ambient and substrate temperatures and prevailing conditions.</p>
Coating System Notes:	<p>* Practical Spreading Rate will vary from the quoted Theoretical Spreading Rate due to factors such as method and condition of application and surface roughness. ** Recoat times are quotes for 25°C and 50% relative humidity, these may vary under different conditions.</p>

Comments
<ul style="list-style-type: none"> 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. At 5°C static temperature or at 5°C and rising, the application may proceed. At ambient temperatures above 35°C, the material should be stored in the shade and cool water used for mixing. 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.

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