


Emer-Patch Horizontal Quick Set / for Consturcting Concrete Hobs on Aged Uncoated Substrate Concrete (Off Form, Tilt Up, Pre Cast) [Exterior] AU_SV16243

Description
Emer-Patch Horizontal Quick Set is a fast setting, shrinkage compensated floor, pavement and joint concrete repair mortar that is trafficable within 1 to 2 hours.

Summary
Emer-Patch Horizontal Quick Set can be used as a fast setting concrete repair mortar to create concrete hobs in a suitably designed form incorporating steel reinforcement.

Substrate And Substrate Preparation	
Substrate Notes:	<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>
Substrate Preparation Notes:	<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>PREPARATION</p> <p>Saw cut or cut back the extremities of the repair locations to a depth of at least 25 mm to avoid feather-edging and to provide a square edge. Break out the complete repair area to a minimum depth of 25 mm up to the sawn edge.</p> <p>Clean the surface and remove any dust, unsound or contaminated material, plaster, oil, paint, grease, corrosion deposits or algae. Where breaking out is not required, roughen the surface and remove any unsound material by light scabbling or grit-blasting.</p> <p>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.</p> <p>Expose fully any corroded steel in the repair area and remove all loose scale and corrosion deposits. Steel should be cleaned to a bright condition paying particular attention to the back of exposed steel bars. Where corrosion has occurred due to the presence of chlorides, the steel should be high pressure washed with clean water immediately after removal of corrosion. Apply one full coat of Dulux® Metal Shield Cold Galv primer to all exposed reinforcing steel and allow to dry before continuing. If any doubt exists about having achieved an unbroken coating, a second application should be made and, again, allowed to dry before continuing.</p> <p>The prepared area should be blown clean with oil-free compressed air.</p>

Coating System Summary	
Prep Coat:	AU_DV02639: Emer-Patch Horizontal Quick Set
Please refer to the coating system details below	

Coating System			
Coat Type:	Prep Coat	Datasheet:	AU_DV02639 Emer-Patch Horizontal Quick Set
Application Methods:	 Trowel		
Coating Application Details:	<p>For 2 to 3 hours prior to application the prepared concrete substrates should be saturated by filling the prepared area with clean water. Immediately prior to application of Emer-Patch Horizontal Quick Set any excess water should be removed to leave the concrete substrate in an SSD (saturated surface dry) condition.</p> <p>Mixing Care should be taken to ensure that Emer-Patch Horizontal Quick Set is thoroughly mixed. A forced-action mixer is essential. Mixing at a slow speed (400/500 rpm) in a suitably sized drum using appropriate equipment such the Ransom 140 x 600 M14 Helical mixing paddle fitted to a heavy-duty 1600W mixer, such as Ransom 1602 E or equivalent is acceptable for one-bag mixes. Free fall mixers must not be used. Mixing of part bags is not recommended. It is recommended that only one bag of Emer-Patch Horizontal Quick Set is mixed at any one time to ensure that all the mortar can be placed within its working life. Place 2.25 L of drinking quality water into the mixer and, with the machine in operation, add one full 18 kg bag of Emer-Patch Horizontal Quick Set and mix for 3 minutes until fully mixed. Do not mix for longer than this time to ensure that the available working life is not reduced.</p> <p>Apply the mixed Emer-Patch Horizontal Quick Set on to the SSD (saturated surface dry) substrate as soon as possible after mixing. The mortar should be applied evenly by trowel and tamped in place with a wood float to ensure full compaction. Thoroughly compact the mortar around any exposed steel reinforcement. Emer-Patch Horizontal Quick Set can be applied up to 250 mm thickness in single applications.</p> <p>Build Up Repair sections greater than 250 mm thickness can be achieved by application of multiple layers. In this instance, the surface of the intermediate layers should be scratch-keyed and allowed to set for a minimum of 2 hours before continuing. The initial layer should be pre-soaked with water for 30 minutes, excess water removed then a further application of Emer-Patch Horizontal Quick Set may proceed.</p> <p>Note: Repairs greater than 0.15 m³ (150 litres) may exhibit significant exotherm. Contact Emer Customer Service for specific application advice in these situations.</p> <p>Finishing Emer-Patch Horizontal Quick Set should be struck off to the correct level and finished with a steel trowel to fully close the surface. If a textured surface is required, this can be achieved using a suitable roller or brush. The completed surface should not be overworked.</p> <p>Curing Emer-Patch Horizontal Quick Set is a cement-based repair mortar. In common with all cementitious materials, Emer-Patch Horizontal Quick Set must be cured immediately after finishing in accordance with good concrete practice. The use of a curing compound, sprayed on to the surface of the finished mortar in a continuous film, is recommended. In fast drying conditions, supplementary curing with polythene sheeting taped down at the edges must be used. In cold conditions, the finished repair must be protected from freezing.</p> <p>Overcoating with protective decorative finishes Emer-Patch Horizontal Quick Set is extremely durable and will provide an excellent hard wearing surface to the repaired locations. Protective coating products may be applied over the repair area after prior removal of any curing membrane generally after 3 days.</p>		
Additional Coating Details:	<p>The minimum applied thickness of Emer-Patch Horizontal Quick Set is 25 mm. The maximum segment length should be no more than 20 times the minimum thickness of the proposed pour. Longer lengths may be achievable, again dependent on configuration, steel position and density, ambient temperature, humidity and other environmental considerations.</p>		
Coating System Notes:	<p>Emer-Patch Horizontal Quick Set should not be used when the temperature is below 5°C and falling or when it is above 35°C. If any doubts arise concerning temperature or substrate conditions, consult Emer Customer Service. The product should not be exposed to moving water during application. Exposure to heavy rainfall prior to the final set may result in surface scour. It is recommended that full bags be mixed, however for applications where smaller quantities of product are required, experienced applicators may elect to mix half bags by weighing out (the correct quantity of product) and mixing with half the recommended quantity of water.</p>		

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