Fosroc Cemtop XD

**Cement based, self-smoothing floor topping for trafficable wearing surfaces**

**1.00 Floor Overlay Treatment**

**1.10 Substrate Preparation**

1.11 Where so designated on the drawings, internal concrete floor surfaces shall be overlaid with a cementitious, self-smoothing, industrial wearing course.

**Specification Clause**

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**INDUSTRIAL FLOORING**

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1.12 **General**

All surfaces shall be prepared, primed and the overlay wear course material applied strictly in accordance with the current manufacturer technical data sheet.

All work shall be carried out by an experienced contractor, who is well trained in the application of the specific, documented, overlay wear course repair system.

All materials used in conjunction with the repair overlay wear course system, shall be approved by the manufacturer.

1.13 **Surface Preparation**

All surfaces to which the new overlay wear course material is to be applied, shall be clean, sound, and free from loose material and contamination such as plaster, oil, paint and grease. Concrete substrate must have a minimum compressive strength of 25MPa. New concrete should be at least 14 days old.

Excess laitance should be removed by light grinding or captive shot blasting followed by vacuuming to remove all dust debris.

All large substrate cracks and holes surface imperfections are to be primed, filled, and dry, prior to overlay wear course application.

For applications where water vapour, seepage or moisture are of concern, consult Fosroc for specific advice.

1.14 **Priming / Sealing**

All overlay wear course surfaces are to be primed with one coat of primer. Porous substrates are to receive two primer coats. Primer coats must be allowed to dry before applying the overlay wear course material.  
  
**1.20 Overlay Wear Course Material**

1.21 The overlay wear course material shall be a heavy duty, cementitious material, capable of application thicknesses from 6mm to 12mm, dimensionally stable, with rapid hardening and curing.

1.22 The material is to consist of a blend of selected cements and aggregates modified with polymers and flow agents that is supplied as a pre-bagged product, which only requires the addition of clean water to produce a self-smoothing, free flowing overlay wear course material.

1.23 The overlay material is to be non-hazardous in accordance with Australian Inventory of Industrial Chemicals containing <0.1% RCS (Respirable Crystalline Silica).

1.24 The overlay wear course material shall exhibit the following approximate properties (when mixed @ 3.25 Litres of water / 18 kg bag):

|  |  |  |
| --- | --- | --- |
| Compressive Strength: | 28 days | >27 MPa (40 mm cubes cured @ 25oC 65%RH) |
| Flexural strength: | 28 days | >7 MPa (rectangular prisms cured @ 25oC 65%RH) |
| Abrasion Index: | 28 days | 7.6 (AS4456.9) |
| Slip resistance: |  | Dry: D1 (AS4586-2103)  Wet: P4 (AS4586-2013) |
| Traffic times @25oC: | 2 - 4 hours | Foot traffic |
| 24 – 36 hours | Light vehicle traffic |

1.25 **Fosroc Cemtop XD** in conjunction with **Nitoprime 330** meets this product criteria and is an approved product.