**Fosroc Cemtop GP Advanced**

**High performance floor underlay, self-smoothing, levelling mortar for carpet / tiles
(2mm to 50mm thickness)**

**1.00 Floor Underlay Treatment**

**1.10 Substrate Preparation**

1.11 Where so designated on the drawings, internal surfaces shall be treated with a high performance, heavy duty, polymer modified, self-smoothing, levelling, cementitious underlay, in preparation for the nominated floor overlay material.

**Specification Clause**

**Specification Clause**

**INDUSTRIAL FLOORING**

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1.12 **General**

 All surfaces shall be prepared, primed and the underlay 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, underlay system.

 All materials used in conjunction with the new underlay system, shall be approved by the underlay manufacturer.

1.13 **Surface Preparation**

 All surfaces to which the new underlay material is to be applied, shall be clean, sound, and free from loose material and contamination such as plaster, oil, paint and grease. 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, holes and surface imperfections are to be primed, filled, and dry, prior to underlay application, using a suitable, compatible material.

1.14 **Priming / Sealing**

 The object of priming is to seal the substrate to prevent air release from the subfloor rising and forming bubbles and pinholes on the surface of the underlay. Extremely porous substrates may require two priming/sealing coats.

 Primer coats must be allowed to dry before applying the underlay.

**1.20 Underlay Material**

1.21 The underlay material shall be a high performance, heavy duty, cementitious material, capable of application thicknesses from 2 mm - 50 mm. Dimensionally stable, with rapid hardening and curing, it shall produce a very smooth surface in preparation to receive the nominated overlay floor finish material.

1.22 The underlay 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 underlay material.

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

1.24 The underlay material shall exhibit the following approximate properties (when mixed @ low end water / bag):

|  |  |  |
| --- | --- | --- |
| Compressive Strength: AS 1478.2 (2005) | 1 day | 10 MPa |
| 7 day | 20 MPa |
| 28 day | 30 MPa |
| Modulus of Rupture (Flexural strength): AS 1012.11 – 2000 | 1 day | 2 MPa |
| 7 day | 3 MPa |
| 28 day | 5 MPa |
| Indirect Tensile Strength: AS 1012.10 – 2000 | 1 day | 1 MPa |
| 7 day | 2 MPa |
| 28 day | 3 MPa |
| Time to foot traffic @ 23oC: | 4 hours |

1.25 **Fosroc Cemtop GP Advanced** and diluted **Fosroc Nitoprime 330** meet the product criteria and approved products.