Nitoflor® PU600

**Chemical resistant, heat resistant, polyurethane cement floor topping**

**1.00 Floor topping**

Where so designated on the drawings, internal concrete floor surfaces shall be coated with a chemical resistant, polyurethane cement topping followed by a polyurethane cement flooring top coat.

**1.10 Surface Preparation**

 All surfaces to which the new coating material is to be applied shall be fine textured, clean, dry, sound, and free from loose material and contamination such as plaster, oil, paint and grease.

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

 All large substrate cracks, holes, surface imperfections which may cause excessive wearing on high spots are to be removed, filled, and allowed to dry, prior to coating application.

**1.20 Floor topping**

 The floor is to be a self-levelling polyurethane cement that cures to form a highly chemical resistant finish to concrete floors. The coating should also allow for the incorporation of slip-resistant grit for relevant areas.

 The floor topping is to be certified by HACCP for use in Splash or Spill Zones when used in food preparation environments.

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

 The material is to be applied specified thickness according to end use and temperature resistance requirements.

 The topping shall exhibit the following characteristics @20OC:

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| **Bond strength (EN1542):** | >1.5 MPa |
| **Compressive strength (AS1478):** | >50 MPa |
| **Flexural strength (AS1012.11):** | >23 MPa |
| **Shore D hardness (ASTM D2240)**  | 80 |
| **Coefficient of thermal expansion (ASTM C351):** | 3.5 x 10-5 / OC |
| **Impact resistance (ASTM D2794):** | 1.8kg / 110cm |
| **Water absorption (ASTM D570):** | 0.8% @ 80OC |
| **VOC content :** | 25g / litre |
| **Cure time (light traffic):** | 24 hours |
| **Cure time (full traffic):** | 48 hours  |
| **Full chemical cure:** | 7 days |

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**1.30 Flooring top coat**

 The floor is to be a polyurethane cement that cures to form a highly chemical resistant finish over the base polyurethane cement floor topping.

1.31 The floor topping and top coat shall be applied in accordance with the manufacturer’s product data sheet.

**1.40** **Fosroc Nitoflor PU600 with Nitoflor PU200 (top coat)** meets the performance criteria and is approved.

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