Nitocote® EP500

**Spray applied chemical and abrasion resistant coating for concrete**

**1.00 Chemical Resistant Coating System**

**1.10 Concrete Surface Preparation**

1.11 All surfaces to receive the coating system should be smooth, sound and free from debris, loose or flaking material and areas of standing water. Surfaces must be free from contamination such as oil, grease, dust, loose particles and organic growth. Concrete surfaces must be fully cured, laitance free and free from any traces of shuttering, release oils and curing compounds.

**1.20 Coating System**

1.21 The coating shall be a spray applied two pack 100% solids, epoxy coating specifically designed to provide chemical resistance and abrasion resistance to concrete.

 The coating shall have initial hardness at 4 hours @ 250C and back to service time of 6 hours @ 250C.

 The cured coating shall provide chemical resistance to common industrial chemical including:

|  |  |
| --- | --- |
| Bleach  | Excellent |
| Detergent  | Excellent |
| Sodium hydroxide 25%  | Excellent |
| Diesel fuel/petrol 100% | Excellent |
| Sulphuric acid 50%  | Excellent |
| Nitric Acid 25%  | Excellent (colour change) |
| Phosphoric Acid 25%  | Excellent |
| Hydrochloric Acid 25%  | Excellent |
| Toluene 100%  | Excellent |
| Kerosene 100%  | Excellent |

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1.22 The coating should be applied in two or more coats until the specified film thickness of (*specify 2mm – 5mm*) has been achieved.

1.23 The coating should be applied in accordance with the manufacturer’s product data sheet.

**1.30** **Fosroc Nitocote EP500** meets the performance criteria and is approved.

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