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MODEL CLAUSES FOR CIVIL ENGINEERING WORKS

SECTION 175 PROTECTIVE COATING OF CONCRETE AND MASONRY SURFACES

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SECTION 175

PROTECTIVE COATING OF CONCRETE AND MASONRY SURFACES

Protective coating systems

175.001 The protective coating of concrete and masonry surfaces shall be in accordance with Appendix 175/1.

Areas to receive partial protective coating systems shall be as specified on the Contract Drawings.

Surface preparation: new concrete

175.002 Prior to the application of a coating to new concrete, all laitance and loose deposits shall be removed, the surface then levelled, and residual moisture released.

Laitance may be removed either by blast cleaning with non-metallic grit, high pressure water jetting, steam cleaning, wire brushing or mechanical scabbling.

Following the removal of laitance by blast cleaning, wire brushing or mechanical scabbling, the treated surfaces shall be washed down with clean water and allowed to dry completely. Sufficient time shall be allowed for the concrete surface to attain a moisture content of not more than 7% before any coating is applied.

Any release agent or curing membrane used in casting the concrete shall be completely removable or be compatible with the protective coating.

Coatings shall be applied a minimum of 28 days after casting or other greater period specified by the coating manufacturer.

Surface preparation: existing concrete

175.003 Unless shown otherwise on the Contract Drawings, existing coatings shall be removed by blast-cleaning, wire brushing or mechanical scabbling or otherwise specified method.

Where the total removal of the existing coating is not required, loosely adherent material shall be removed by dry scraping followed by the removal of dust and contaminants by soft brushing.

Any friable material or surface spalling, together with any cracks, rust staining or exposed reinforcement revealed by the surface preparation shall be made good prior to the application of coatings.

Additional preparation

175.004 When following initial surface cleaning and preparation a surface displays cracks, blowholes or areas of pitting, the affected areas shall be covered with a fairing coat of polymer modified cementitious material capable of being applied in up to a 3 mm thick layer.