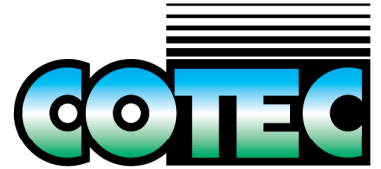




High Performance Paint Specification



PS-C004

THE MOISTURE CONTENT OF CONCRETE

INTRODUCTION:

Concrete must be 'dry' before it can be coated. Dry means no running or ponded water is present on the surface and any dampness in the concrete is a minimum.

PROCEDURE:

Below are three different options:

- 1 You can check the surface dryness visually by looking to see if there are any obviously darker patches or patterns in the concrete.
- 2 ASTM D4263 Standard test method for indicating moisture in concrete by the plastic sheet method. This method involves taping a polythene sheet (100 micron) 400 x 400 millimetres square on to the concrete surface for at least 16 hours. If moisture collects under the plastic sheet during this time, it is an indication that the concrete contains too much moisture for good adhesion. On large areas of concrete this method should be repeated at several points to ensure uniformity throughout the concrete.
- 3 CONDUCTIVITY: A moisture meter is the quickest and easiest method. A meter with a probe is pushed into the concrete surface and the reading is recorded. 4-6% is the normal range for fully cured concrete.

NOTE: Full Cure for new concrete – This normally takes approximately 28 days.

It should be understood that even fully cured concrete can contain significant moisture and even though the appearance is that of a dry surface, testing using the ASTM D4263 method often indicates that further time for the concrete to loose enough moisture is required.

Aged concrete pools can adsorb water and this takes many days to be released, we recommend that these surfaces are tested prior to coating also.

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