

Water Resistance Testing of the Redux™ 650 Topcoat Systems

In accordance with ASTM D870¹

BACKGROUND:

The purpose of this test was to determine how well the Redux 650 Topcoat System would withstand being submerged below the water line in a hot tub or spa application.

METHODOLOGY:

The Redux 650 Topcoat System and two competitive coating systems were applied over a section of acrylic hot tub material and allowed to fully cure.

The water bath was brought to a neutral pH level using the PoolTime ShockPlus 4-in-1 Water Treatment powder. Chlorine tablets were then added to the water at >20ppm, and the water was brought to a temperature of 50°C (122° F).

Every day for two consecutive months, the test panel was immersed in the 50°C (122° F) chlorinated water bath for eight hours, then the water bath was turned off and the panels were left immersed in the water bath at ambient conditions for 16 hours.

Each day, the chlorine levels in the water were tested using Pool & Spa test strips, and chlorine tablets were added as needed to maintain levels of >20ppm. Daily, the test panel was evaluated for loss of adhesion to the substrate and overall coating integrity.

RESULTS:

After two consecutive months of daily hot chlorinated water cycling, the Redux 650 system showed no signs of coating or adhesion failure, while Competitor A began to delaminate from the surface and Competitor B showed signs of wear.



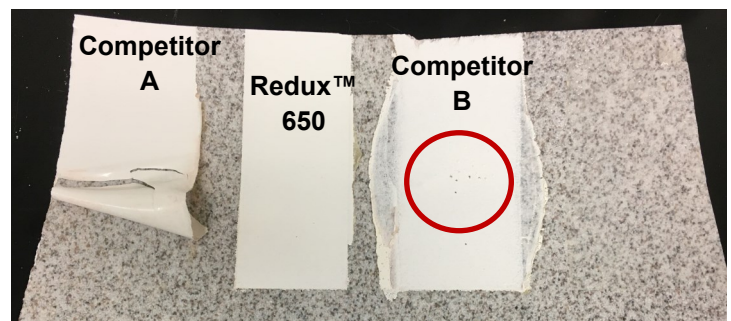
Temperature-Controlled Water Bath



Pool and Spa Water Testing Strips



PoolTime ShockPlus 4-in-1 Water Treatment Powder



¹ www.astm.org/d870-15r20.html

