

Application of ARC NVE and ARC NVE Veil Coat System on Concrete with high moisture content

This bulletin addresses the use of ARC 797 epoxy primer prior to the application of the ARC NVE and NVE VC system on concrete that has high residual moisture content at the surface.

Application of vinyl ester based coatings and floorings onto damp concrete or concrete where moisture is present can affect the curing of the vinyl ester primer system. This can result in premature failure of the ARC NVE products which is typically seen as a delamination failure with uncured NVE primer seen on the concrete substrate.

To reduce the possibility of moisture related application issues, ARC 797 primer may be used as a temporary moisture barrier by applying it onto the concrete, prepared as per normal requirements. Immediately after application of the ARC 797, it should be broadcast to excess with clean oven dried quartz sand (0.4-0.8 mm) while the primer is still wet. The primer should be allowed to cure for a minimum 16 hours at 20 degree Celsius (longer at lower temperature). During this period the area should be protected from all contamination including but not limited to water; other liquids; hydrocarbons; or any airborne contaminants that would interfere with adhesion of the subsequently applied ARC NVE coating.

Following cure, the primer should be thoroughly cleaned to remove any loose sand particles. The application of the ARC NVE or NVE VC system should then proceed as per the application instructions, including the application of the ARC NVE primer coat.