



Vapor Emissions

All tests should be conducted by an independent third party testing agency and not by the athletic flooring contractor. Results indicating acceptable levels should be supplied to the athletic surfacing contractor in writing prior to the commencement of installation of athletic surfacing.

Depending on the concrete formula, thickness of the slab, temperature, humidity and other factors, it may take from 21-45 days for the slab to reach sufficient compressive strength to be referred to as “cured”. “Cured”, however, is not the same as dry. Long after the concrete is cured, it will continue to emit water vapor as it dries. Installation of a synthetic surfacing system should not begin until the concrete subfloor has been tested and determined to be dry in accordance with specifications provided by the manufacturer of the surfacing material; otherwise, the surface may not bond or adhere properly with the subfloor.

Generally acceptable standards regarding vapor emissions are 3 lbs. per 1,000 square feet during a 24-hour period. For current standards, refer to:

ASTM F-710-98
ASTM F-1869-98
ASTM F-2170-02

However, each athletic surfacing manufacturer will have its own requirements and acceptable test methods and these should be strictly adhered to.

Differences in site conditions require variations in construction and repair methods and materials. Readers are advised to consult a qualified contractor or design professional before undertaking construction or repair of an indoor facility. Rev. 05/05