



Technical Bulletin #52 Key Product Adhesion

Bond Strength Testing to Substrate Using the DeFelsko Posi Test AT Instrument

Key Resin Company certifies that when Key Resin products are installed to a properly prepared substrate according to Key Resin guidelines, the bond/adhesion strength of the Key Resin material to the substrate will meet/exceed** published physical properties. Key Resin does not have specific requirements for testing bond/adhesion for any project. If testing is required/requested by the architect or facility owner, this should ideally be performed by an independent testing service at the facility owner's expense, following procedures similar to those outlined in ASTM D7234, using 50 mm (2") metal dollies and a test instrument similar to DeFelsko Posi Test AT. A successful test will show particles of concrete bonded to the underside of the Key Resin material, with the concrete rupturing/failing in tensile strength before the adhesion/bond strength of the Key Resin material is exceeded.

Key Resin approved installation contractors and other Key Resin authorized representatives may perform this test unless a 3rd party test service company is required by the architect/owner, contact Key Resin Technical Service for details.

**The bond/adhesion strength value will vary depending on the tensile strength of the concrete substrate, typical strength concrete for floor slabs in commercial/institutional/industrial facilities is 300+ psi. Consult with a professional engineer or the American Concrete Institute (ACI) for further information regarding the proper design of concrete floor slabs.

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