

Weldcrete Performance Properties

Data obtained from tests conducted periodically by leading independent laboratories. Test reports are available upon request.

- **Tensile Bond Strength:** ASTM C-932 (pulling apart bonded cement briquet halves). In all cases failure occurred in the cementitious material, not in the bond. 385 psi. Avg. 28 days.
- **Flexural Bond Strength:** ASTM C-78 (concrete beams laminated with bonding agent). 603 psi. Avg.
- **Shear Bond Strength:** ASTM C -1042 (slant shear cylinder test). 740 psi. Avg. 14 days.
- **Temperature Range:** ASTM C-109 (specimens brought to 35 degrees F for 1 hr., then to 310 degrees F for 2 hrs). No bond failure. Shear tests 400 psi. Avg.
- **Freeze-Thaw Stability:** 5 cycles freeze (-10 degrees F and thaw). Freeze-thaw stable.
- **Toxicity:** Enclosed mice exposed to 30 cc volatized bonding agent for 1 hr. Non-toxic, no ill effects after 7 days.
- **Fire Resistance:** ASTM E-119 (bonded assembly). Passed 2 hr. Fire Test 1800 degrees F and 1 hr. Hose Stream Test.
- **Flammability:** Meets MIL-B-19235C, non-flammable.
- **Acid Resistance:** 1" concrete slabs bonded to 1/2" gypsum plaster subjected to seepage of strong detergents and synthetic urine for 10 hrs. a day. No bond failure after 25 consecutive days. Also unaffected by alkalinity of cement.
- **Life Expectancy:** Lab tested and field proven. Non-deteriorating bond; retains strength and flexibility.