

Ductile 100

Ultra-high performance mortar for concrete repair

GST International's Ductile 100 is a specially engineered cement-based overlay product that offers tremendous performance in 2" thick to one-eighth inch overlays. Half-inch to three-quarter inch overlays are typical.

Benefits:

- High ductility, allowing the overlay to "flex" without being damaged.
- 500 times the tensile strain capacity of other cement-based products.
- 10 times the bond strength of other fibers (molecular bond) gives Ductile 100 far superior crack resistance to all other overlay products.
- High strength and low elasticity of our fibers provide long-term crack resistance that exceeds any product on the market.
- Ability to apply directly over existing damaged concrete without bonding agents. The surface must be clean and wet. Power washing is advised.
- Ability to apply over control joints due to its micro-cracking control of concrete expansion and contraction. These microcracks are generally too small for water penetration, reducing the chance of delamination or spalling.
- The high fiber bond strength reduces chipping, cracking or impact damage.
- The high bond strength reduces typical edge damage.
- Ground movement that would normally cause large cracks is controlled through the "bending" and microcracking of Ductile 100.
- Crystalline self-healing of microcracks prevents water penetration over an extended product life.
- High density and high fiber content reduce abrasion wear.
- Freeze thaw protection is over 100 times that of competitive mortars.
- Ductile 100 can be colored, stained, acid etched or stamped.
- The unique chemistry of Ductile 100 makes it resistant to UV, chemicals, and provides an expected service life of 100 years.
- No harmful chemicals, acrylics or epoxies are used in Ductile 100.
- Only water is added at the jobsite. Ductile 100 is preblended.
- Normal concrete placement and finishing equipment is compatible with Ductile 100.
- Texture rollers are often used to place Ductile 100 more quickly and easily.
- Thin overlays should immediately be coated with an acrylic or other curing agent. This is especially true outdoors.

DATA SHEET