



FAST FILL

HIGH STRENGTH, FAST SETTING CONCRETE MIX & DEEP FILL REPAIR MORTAR TECHNICAL DATA & APPLICATION INSTRUCTION

PRODUCT DESCRIPTION

Kingdom Products **FAST Fill** Concrete Mix is engineered to very rapidly develop maximum strength and attain a tenacious bond. **FAST Fill** is capable of filling voids between 1/4" deep to 5" deep in one lift. Use interior or exterior wherever a fast setting, high strength concrete material is needed. May be used in conjunction with Kingdom Products' full line of Fast Setting products, repair & restoration materials as well as any of the Impressionaire Floor & Wall products. Due to its moisture scavenger properties, Kingdom Products **FAST Fill** shows no shrinkage, when mixed with proper quantities of water.

BENEFITS/FEATURES

- Use Interior/Exterior
- Easy to mix and apply
- One component - just add water
- Fast Setting!!
- Self-Drying, self-finishing underlayment
- Accepts organic coatings in 4-6 hours
- High-flowability with quick set & quick hydration
- Install overlays & floor coverings in as little as 60 minutes

RECOMMENDED APPLICATIONS

- Driveways
- Sidewalks & Steps
- Warehouses
- Storage Areas
- Hallways
- Roadways
- Parking Lots
- Loading Docks
- Truck Ramps
- Fast-track Industrial Repair
- Anywhere a fast-setting, high-strength concrete repair or restoration material is needed

TECHNICAL INFORMATION

Working Time.....	10-15 min	<u>Compressive Strength ASTM C-109</u>
Initial Set.....	35 min	3 Hours.....6,000 psi (41-42 mpa)
Final Set.....	60 min	7 days.....8,000 psi (55-56 mpa)
Concrete Adhesion.....	Excellent	28 Days.....10,000+ psi (68-69 mpa)
Freeze-Thaw Resistance.....	Excellent	Application Temperature.....50°F- 85°F
Wet Appearance.....	Dark Gray	Dry Appearance.....Light/Natural Gray

***Please note that low air and/or concrete temperatures and/or relative humidity may extend drying times. Follow recommended coverage rates for best results.*

APPROXIMATE COVERAGE RATES

Varies by thickness - On average each 50 lb bag will cover approximately

- 4.5 sq ft at 1" thickness
- 9 sq ft at 1/2" thickness

STORAGE & SHELF LIFE

Do not subject Kingdom Products' **FAST Fill** to moisture prior to use. Keep product in a cool dry location, free from direct sunlight in a tightly sealed container. Avoid storing directly on top of a concrete slab. Place a barrier between the **FAST Fill** mix bags and the concrete floor (i.e. plastic, pallet, etc). Transfer any leftover material to a plastic pail with a gasketed lid. Keep product in a cool dry location. In cold climates, store the product at room temperatures and bring product to a temperature range of 60 degrees to 80° prior to use. Colder material may take longer to achieve final set time, while hot material may set very quickly. Shelf life is SIX MONTHS from the date of manufacture provided unopened product is stored under the proper conditions, free of moisture, direct sunlight, excessive heat and freezing temperatures. To extend shelf life, transfer any leftover material to a plastic pail with a gasketed lid.

FAST Fill is stocked and sold in 50 lb bags (48 per pallet) and is available in Natural Gray.

SURFACE PREPARATION

To ensure excellent performance, clean the area to be repaired by mechanical means using surface grinder, diamond cup wheel or similar type tooling. Edges of area to be repaired should be undercut to provide a mechanical hold. Dust created by prep work should be removed by flushing area with clean water prior to application.

FAST Fill can be applied to saturated surface dry substrate, meaning moist with no standing water, however, to ensure a tenacious bond with the substrate, prime the repair area or surface area to receive the **FAST Fill**, with *Kingdom Products' Universal Primer Activator* or *Superbond Polymer Primer*. Allow the Primer to turn from white milky to clear and tacky then apply the **FAST Fill** without delay.

MIXING

Add .70 to .75 gallons of water to a 50 lb bag of **FAST Fill**. Mechanical mixing will produce a smoother consistency without the need for additional water. **DO NOT OVERWATER**. Mix thoroughly for 2-3 minutes and apply to the substrate without delay. If surface skinning occurs, remix before using. **Do Not Add More Water**. Keep mixing vessel clean.

APPLICATION

Apply *Kingdom Products FAST Fill* to the area needing repair at the desired thickness. Apply sufficient pressure to fill all voids and defects. To obtain a featheredge, use in conjunction with *Kingdom Products' FAST Feather*.

Once fully cured, **FAST Fill** can be covered with a suitable floor covering such as carpet, vinyl flooring, ceramic tile, etc.

FAST Fill can be used as a wear surface but it is recommended to skim coat with *Kingdom Products' Top Cap Overlay* or *Rosalia Microtoppings* to ensure longevity of the repaired areas and provide a uniform look overall. In such cases, be sure to acid etch or sand the **FAST Fill** repair areas before top coating, as the **FAST Fill** is dense and non-porous.

PRECAUTIONS AND LIMITATIONS

- **FAST Fill** needs a properly prepared substrate. Do not apply over dust or pollen on substrate.
- Do not over water this product during application.
- Allow Superbond primer to tack up, but not dry completely prior to application.
- Avoid using in temperatures below 40 degrees or above 90 degrees.
- Protect repaired area from freezing for 48 hrs after application.

SPECIAL NOTES

Please consult Material Safety Data Sheet (MSDS) and read Warranty information prior to use. FOR PROFESSIONAL USE ONLY!