

# S3 – QuikFill

## 2- Part Urethane Crack & Joint Repair

### TDS AND APPLICATION

#### DESCRIPTION: S3 QuikFill Urethane Crack & Joint Repair:

QuikFill is a 2-part aromatic urethane, very fast setting, and with very low viscosity. The system is packaged in dual cartridge tubes for fast and easy installation and allows for fast return to service. QuikFill is formulated to be 100% solids, low odor, and extremely rigid, yet resilient. The low viscosity allows for deep penetration into fine cracks and can be mixed with a sand aggregate to allow for repairs on larger cracks and spalls. It is a great solution for repairing cracks prior to the installation of floor coating, carpet, and resilient systems.

#### FEATURES & BENEFITS:

- Zero VOC
- Low viscosity range of 60-100 csp
- Tack free in 6 minutes with return to service in 15 minutes
- Grinder ready in under 45 minutes at 70 F
- Good for direct-to-concrete applications
- Excellent bonding to dry concrete
- Excellent wear resistance and can be grinded or shaved smoothly once cured
- Very good tensile strength
- Good chemical and mold resistance
- Can be mixed with sand or quartz fillers to create a thick paste for larger repairs

#### Applications

- Cracks, control joints, and saw cuts
- Concrete spalls and pop-outs
- Holes in concrete

#### PRODUCT DETAILS:

Packaging	21.2 oz (627mL) Dual-cartridge tubes
Color packaged	Light brown
Color cured	Opaque brown
Ratio by volume	1:1
Shelf Life	12 months in unopened containers
Gel time @ 70F	2 minutes
Tack free time @ 70F	6 minutes
Return to service time @ 70F	15 minutes
Ready to grind wait time @ 70F	<45 minutes
Solids content	100%
Shore D hardness	74
Application Temperature	40-90F
VOC Content	0 g/L
Viscosity	60-100cps

## COVERAGE CHART

The following chart provides estimated linear feet of coverage per 627mL (21.2 oz) dual-cartridge tube of QuikFill for various joint and crack dimensions. Coverage is based on rectangular joint profiles.

Joint Depth	1/8" Wide	3/16" Wide	1/4" Wide
1/4"	97.6 ft	65.1 ft	48.8 ft
3/8"	65.1 ft	43.4 ft	32.5 ft
1/2"	48.8 ft	32.5 ft	24.4 ft
5/8"	39.1 ft	26.0 ft	19.5 ft
3/4"	32.5 ft	21.7 ft	16.3 ft

### Notes:

- Coverage estimates are based on rectangular joint cross-sections
- Actual coverage may vary based on joint irregularities and application technique
- For deep cracks (>1/2"), use dry silica sand as filler to within 1/2" of surface before applying QuikFill
- Temperature affects working time; adjust coverage estimates accordingly

**Coverage Formula:** Linear Feet = Volume (cu in) ÷ (Width × Depth)

627mL = 38.26 cubic inches

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#### **SURFACE PREPARATION**

Concrete surface should dry, free of dust and debris, and free from oils or other bond breakers. A concrete blade can be used to prepare cracks and prepare all bonding surfaces for the QuikFill. New concrete should be fully cured, dry, and free of movement. Backer rod can be used to prepare deep cracks and cuts where necessary.

#### **MIXING & APPLICATION**

There is no pre-mixing of the cartridge tubes necessary. QuikFill is activated by thoroughly mixing the A side with the B side of the cartridge tube. This mixing can be achieved by using a mix nozzle, attached to the end of the dual-cartridge tube, and dispensed via a dual-cartridge caulk gun (650mL). The mix nozzle will blend the A and B sides together as the material is squeezed out of the tube body. Keep tubes tightly sealed when not using the product. Before dispensing material into target application, make sure you first balance the QuikFill cartridge tube A and B sides. Prior to installation of the mix nozzle, use the cartridge gun in upright position to squeeze air pockets out of the tubes, until a very small amount of liquid exits from both A and B tube sides. This process is important and will allow balancing of the liquids and removal of excess air pockets, ensuring a proper mixing ratio during the installation of the urethane.

After the target area is properly prepared and cleaned, the QuikFill system can be used to do the repair. It is best that the installer tries to have all the prep work done first, to avoid interruption of the crack filling process. Make sure the mix nozzle is properly affixed to the end of the tube, and that the dual-cartridge is seated properly in the dual-cartridge caulking gun. The material is a low viscosity liquid, so control the flow carefully using the caulk gun trigger. The set time on the dispensed urethane is about 2 minutes at 70F, so work continuously to preserve the life of mix nozzle. Replace with a new mix nozzle if material cures, making it unusable. This material has low viscosity, so it will feed gravity into cracks and saw cuts. Slightly over-fill the areas to be repaired, so that they can be later shaved or grinded to meet level with the floor. For deep and wide cracks, use a dry silica sand to first fill the crack up to approximately 1/2" from the concrete surface. Then fill the remaining open crack with QuikFill, this will help save on crack fill material. To repair larger crack, spalls and/or pop-outs, mix the dispensed QuikFill with a dry sand aggregate, to a thickened paste- like consistency. Use a flat blade or putty knife to work the paste into the repair area.

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#### Caution/Notes

- Sand or aggregate used to mix into QuikFill must be completely dry. Excess moisture can adversely affect the material and its ability to cure properly.
- Concrete must be dry. QuikFill is a moisture cure technology, and will bubble in the presence of moisture, but these bubbles typically migrate to the top area that will be shaved or grind off.
- QuikFill can turn white/opaque while it cures, this is ok.
- Do not thin or alter with liquid additives.
- When using cartridge gun, keep pointed down to prevent mixed urethane from mix nozzle flowing back into the tubes.
- Hot or cold air or surface temperatures will change the working times and set times of this product, times in this TDS are specified at 70F.

#### CLEAN UP

QuikFill can be cleaned with MEK or Acetone. Dispose of excess material in accordance with local, state, and federal regulations.

#### STORAGE

QuikFill must be stored in closed containers, between temperatures 55-85°F. Do not allow to freeze.

#### SAFETY PRECAUTIONS

##### HEALTH CONSIDERATIONS

As with all chemicals, good hygienic habits must be observed, and the wearing of protective clothing and gloves is advised. Before using the product, please read and follow the product Safety Data Sheet (SDS). Use this product only as directed. Keep out of reach of children.

##### FOR YOUR PROTECTION

The data, statements and recommendations set forth in this product information sheet are based on research and development work which has been carefully conducted by S3 Surface Solutions, LLC. and we believe such data, statements and recommendations will serve as reliable guidelines. This product is subject to numerable uses under varying conditions over which we have no control, and accordingly, we do NOT warrant that this product is suitable for any particular use. Users are advised to test the product in advance to make certain it is suitable for their production conditions and particular use or users.

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#### WARRANTY

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