

CR304 Urethane Slab Repair (Small Kit) (Requires Standard Caulk Gun)

Page 1

INSTRUCTIONS

Instructions For Thin Cracks 1/8" and Less

Wear all appropriate safety gear when performing this work. Have an empty 5 gallon bucket or equivalent, with a large disposable rag in the bottom ready to hold the tube set and dispensing tool assembly.

Preparation

1. Chasing the crack.
 - a. Using a Bosch 1775E tuck pointing power tool with a 1/4" grinding blade or any similar power tool, grind out the crack 1/4" wide and 1/4" deep.
2. Remove all debris from the crack using a vacuum or brush.
 - a. It is important for the crack to be clean and critical that it be dry prior to moving to the next step.

Tube set and dispensing tool assembly for CS Urethane Slab Crack Repair Material

Refer to the Tube Set drawings while following the assembly instructions

1. Vigorously shake each tube of CR304 Urethane Slab Crack Repair Material for 30 – 60 seconds prior to assembly and dispensing the CR304 Urethane Slab Crack Repair Material.
2. Once shaken, always keep the tube pointed up until instructed otherwise.
3. Unscrew the cap from the tube set. Be careful not to lose the small Restrictor Button from under the cap of the tube sets. Remove the small cap covering the opening of the tube set.
4. Place the Restrictor Button on the top of the now open tube with the small holes positioned over the center of each side of the tube.
5. Place the 3/16 x 48 Mixer Nozzle for the CR304 Urethane Slab Crack Repair Material firmly on top of the tube.
6. Place the Nut over the mixer nozzle and tighten firmly.
7. Place the Tube Set in the appropriate Dispensing Tool; continue to keep the tip pointed up.
 - a. The dual tube set cartridges use the Manual Dispensing Tool.
8. With the tip pointed up, slowly purge the air in the tubes by compressing the trigger on the dispensing tool and slowly tipping the tool from side to side. Purge all of the air in the tubes as well as the air in the mixer nozzle.
9. Hang the dispensing tool assembly on the inside of the bucket with the mixer nozzle pointing down. From this point on, the point must always point down. The straighter the better to avoid the back bleed of air into the mixer nozzle and tubes.

The CR304 Urethane Slab Crack Repair Material sets and cures quickly, do not leave fluid in the mixer nozzle for more than 2 minutes.

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Dispensing of the CS Urethane Slab Crack Repair Material

1. Place the bucket and dispensing tool next to the start point of your repair.
2. Dispense approx 1 mixer nozzle of CR304 Urethane Slab Crack Repair Material into the rag inside the bucket. This insures proper mixing of the material prior to dispensing in to the crack. Keep the point down at all times during the repair process.
3. Remove the prepared CR304 Urethane Slab Crack Repair Material and dispensing tool from the bucket, prime the crack by wetting it entirely with the CR304 Urethane Slab Crack Repair Material. Just wetting, not filling the crack.
4. Slowly pour dry silica sand into the crack, filling the crack up to the base of the chased crack.
5. With CR304 Urethane Slab Crack Repair Material, move along the crack saturating the silica sand in the crack. Be careful not to overfill the crack. The CR304 Urethane Slab Crack Repair Material sets and cures quickly, do not leave fluid in the mixer nozzle for more than 2 minutes. Purge the mixer nozzle into the rag as needed to insure a free flow of fluid through the mixer nozzle. The dispensing of the CR304 Urethane Slab Crack Repair Material is complete.
6. Once you have saturated all of the silica sand, go back to the starting point and apply more Silica Sand as needed to completely fill the crack. Excess should be removed with a trowel while still wet.
7. Keeping the tip pointed down and in the bucket, un-screw the mixer nozzle nut, pull off the mixer nozzle, remove the restrictor and firmly reinstall the white cap over the opening of the tube set and place the blue cap over the end of the tube set. The remaining material in the capped tubes may be reusable.

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Page 1

INSTRUCTIONS

Instructions For Wide Cracks 1/8" to 1/4"

Wear all appropriate safety gear when performing this work. Have an empty 5 gallon bucket or equivalent, with a large disposable rag in the bottom ready to hold the tube set and dispensing tool assembly.

Preparation

1. The crack must be dry before beginning this repair.

Tube set and dispensing tool assembly for CR304 Urethane Slab Crack Repair Material

Refer to the Tube Set drawings while following the assembly instructions

1. Vigorously shake each tube of CR304 Urethane Slab Crack Repair Material for 30 – 60 seconds prior to assembly and dispensing the CR304 Urethane Slab Crack Repair Material.
2. Once shaken, always keep the tube pointed up until instructed otherwise.
3. Unscrew the cap from the tube set. Be careful not to lose the small Restrictor Button from under the cap of the tube sets. Remove the small cap covering the opening of the tube set.
4. Place the Restrictor Button on the top of the now open tube with the small holes positioned over the center of each side of the tube.
5. Place the 3/16 x 48 Mixer Nozzle for the CR304 Urethane Slab Crack Repair Material firmly on top of the tube.
6. Place the Nut over the mixer nozzle and tighten firmly.
7. Place the Tube Set in the appropriate Dispensing Tool; continue to keep the tip pointed up.
 - a. The dual tube set cartridges use the Manual Dispensing Tool.
8. With the tip pointed up, slowly purge the air in the tubes by compressing the trigger on the dispensing tool and slowly tipping the tool from side to side. Purge all of the air in the tubes as well as the air in the mixer nozzle.
9. Hang the dispensing tool assembly on the inside of the bucket with the mixer nozzle pointing down. From this point on, the point must always point down. The straighter the better to avoid the back bleed of air into the mixer nozzle and tubes.

The CR304 Urethane Slab Crack Repair Material sets and cures quickly, do not leave fluid in the mixer nozzle for more than 2 minutes.

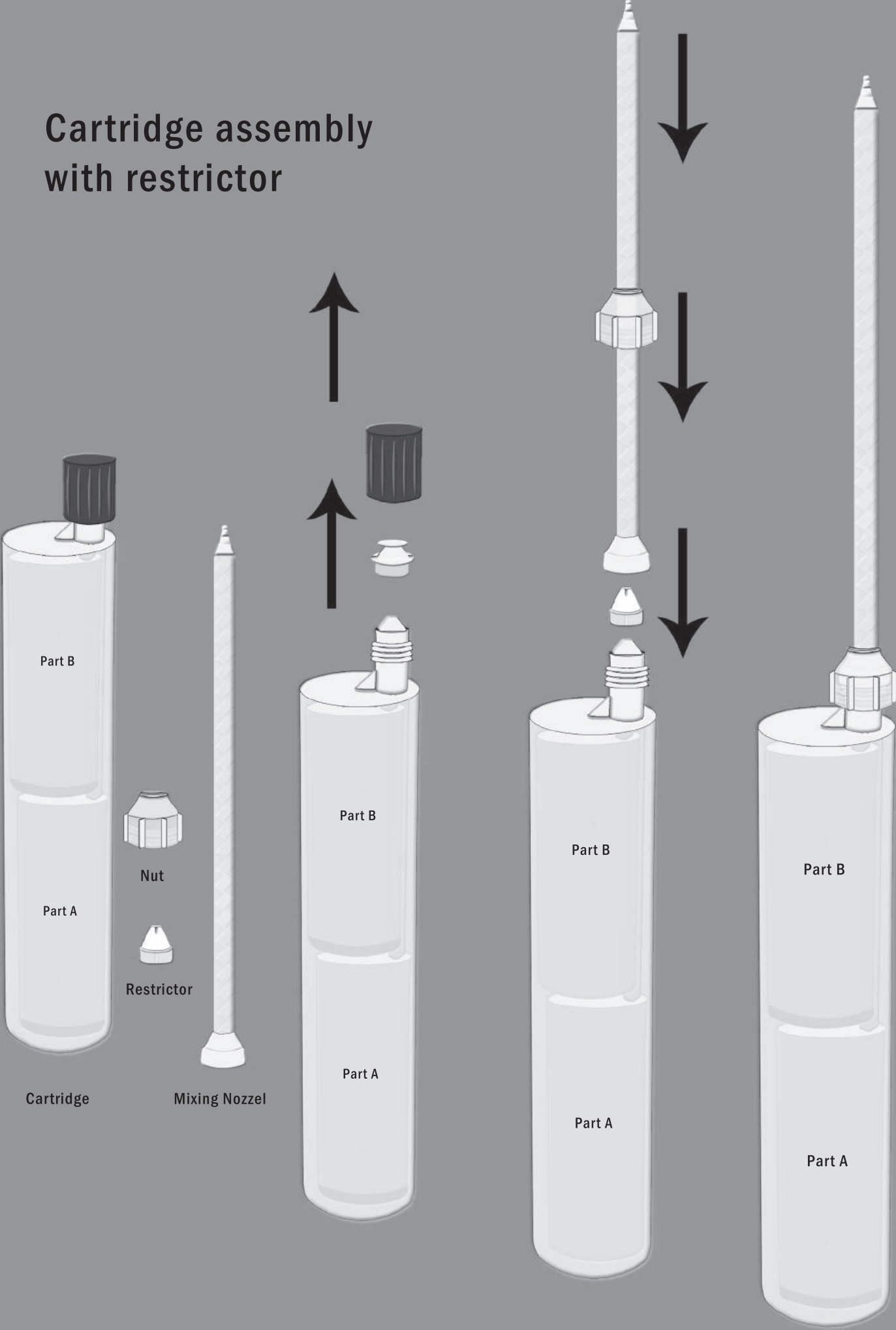
CR304 Urethane Slab Repair (Small Kit) (Requires Standard Caulk Gun)

INSTRUCTIONS

Dispensing of the CS Urethane Slab Crack Repair Material

1. Place the bucket and dispensing tool next to the start point of your repair.
2. Dispense approx 1 mixer nozzle of CR304 Urethane Slab Crack Repair Material into the rag inside the bucket. This insures proper mixing of the material prior to dispensing in to the crack. Keep the point down at all times during the repair process.
3. Remove the prepared CR304 Urethane Slab Crack Repair Material and dispensing tool from the bucket, prime the crack by wetting it entirely with the CR304 Urethane Slab Crack Repair Material. Just wetting, not filling the crack.
4. Slowly pour dry silica sand into the crack, filling the crack up to the base of the crack.
5. With CR304 Urethane Slab Crack Repair Material, move along the crack saturating the silica sand in the crack. Be careful not to overfill the crack. The CR304 Urethane Slab Crack Repair Material sets and cures quickly, do not leave fluid in the mixer nozzle for more than 2 minutes. Purge the mixer nozzle into the rag as needed to insure a free flow of fluid through the mixer nozzle. The dispensing of the CR304 Urethane Slab Crack Repair Material is complete.
6. Once you have saturated all of the silica sand, go back to the starting point and apply more Silica Sand as needed to completely fill the crack. Excess should be removed with a trowel while still wet.
7. Keeping the tip pointed down and in the bucket, un-screw the mixer nozzle nut, pull off the mixer nozzle, remove the restrictor and firmly reinstall the white cap over the opening of the tube set and place the blue cap over the end of the tube set. The remaining material in the capped tubes may be reusable.

Cartridge assembly with restrictor



CR304 Urethane Slab Repair

Hybrid Urethane for Repairing Cracks in Concrete Slabs and Floors

Page 1

1 GENERAL DESCRIPTION

CR304 Urethane Slab Repair is a very rapid set, high strength ultra low viscosity concrete repair material. CR304 Urethane Slab Repair repairs hairline cracks and larger in parking decks, warehouse floors, driveways, patios, pool decks, etc. It penetrates deep into the crack and cures in minutes. The product can have an overlay placed on it the same day. Repaired area can be put back into service within 20 minutes. It works even in cold conditions. It is especially useful where low turnaround times are advantageous.

2 CHARACTERISTICS

CR304 Urethane Slab Repair is very low in viscosity allowing the product to penetrate deeply into concrete and does not become brittle.

3 ADVANTAGES

- 2 to 4 minute initial set, 20 minutes to back in service
- High Impact Resistance
- Extremely Low Viscosity
- High Fuel and Chemical Resistance
- High Durability
- Convenient Packaging
- Self Leveling

4 TYPICAL COMPONENT PROPERTIES

Solids	60%
Shelf Life	1 Year
Hardness ASTM D2240	Shore D 70
Mix Ratio	1:1
Tack Free	4-5 Minutes
Tensile ASTM D412	4500 Filled
Tear Strength, ASTM 624C	460
Gel Times	2 min. @75 Deg
Elongation ASTM D124	8%
Viscosity @ 25 Deg. Cel.	20

5 PACKAGING

Dual Cartridges

CR304 Urethane Slab Repair

Hybrid Urethane for Repairing Cracks in Concrete Slabs and Floors

6 PREPARATION

Concrete must have a minimum of 28 days of curing before application of CR304 Urethane Slab Repair. The area must be dry. Not meant for expansion joints.

7 APPLICATION

1. For optimum appearance open up the crack a minimum of 1/4" wide by 1/4" deep using, a hand grinder and crack chasing diamond blade. Blow out the crack to clean out any loose debris. Oils, sealers, etc. will inhibit proper bonding of CR304 Urethane Slab Repair. If you choose not to chase the crack CR304 Urethane Slab Repair can be ground off after initial set, usually about 20 minutes.
2. Fill the crack with dry silica sand.
3. Shake CR304 Urethane Slab Repair for 20 to 30 seconds to mix pigments which may have settled.
4. Remove cap of cartridge, attach crossover restrictor found on the neck of the cartridge, static mixer, and then retaining nut to cartridge. While holding Jake tool upward, place cartridge set into gun. Point nozzle upward and squeeze trigger until air and unmixed product is expelled from the static mixer. Maintain a constant flow through the mixer while the gun is pointed in the air. Product is now ready to be applied to repair area. Pointing the gun upward and allowing product back into the cartridge from the static mixer will result in cross contamination and loss of product.
5. Soak sand with CR304 Urethane Slab Repair until saturated leaving a slight hump.
6. CR304 Urethane Slab Repair can be scraped or lightly sanded once it turns light grey and has reached an initial cure to achieve a finished look.
7. CR304 Urethane Slab Repair begins to set up very quickly. If allowed to sit in the mixer for more than a minute or two the mixer will become plugged. Unused product can be capped and reused as long as product that has entered the mixer has not been allowed to reenter either side of the cartridge.

8 WARRANTY

Recommendations concerning the performance or use of this product are based upon independent test reports believed to be reliable. If the product is proven to be defective, at the option of the Manufacturer, it will be either replaced or the purchase price refunded. The Manufacturer will not be liable in excess of the purchase price. The user will be responsible for deciding if the product is suitable for his application and will assume all risk associated with the use of the product. This warranty is in lieu of any other warranty expressed or implied, including but not limited to an implied warranty of merchantability or an implied warranty of fitness for a particular use.