

# BONDED CCS 10.5™

## CONCRETE CRACK SOLUTION

### Fast Setting Concrete Repair Kit

#### BONDED CHEMICAL

CONCRETE  
MAINTENANCE

CONCRETE COATINGS

FACILITY CLEANING  
AUDITS

FLOOR CARE TRAINING

FLOOR CLEANING  
EQUIPMENT

FLOOR MATS

GREEN FORMULATED  
PRODUCTS

POLISHING EQUIPMENT

SWEEP / VAC MACHINES

TOOLS & BRUSHES

WET / DRY VACUUMS

BONDED CHEMICAL  
GERMANTOWN, WI 53022

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#### ADVANTAGES

- Quick Setting Forms a Tough Durable Repair
- Low Viscosity, Quick-Flow Formula
- Penetrates Deep for Extreme Adhesion
- Strengthens Deteriorated & Spalled Concrete
- Apply In Minutes With No Primer Required
- Seals Against Moisture Damage
- Suitable For High Traffic, Heavy Floor Loads
- Resistant to Chemical Attack

#### HOW IT WORKS

CCS 10.5 is a two-component modified low viscosity urethane polymer designed to repair spalls and cracks in concrete substrates. It is extremely versatile in that it penetrates deep into the existing substrate providing a tenacious bond. When filled with aggregate (40 to 60 mesh silica sand or sugar sand) will form a tough durable repair in just minutes.



#### AREAS OF APPLICATION:

- Warehouse Concrete Floors
- Concrete Driveways & Parking Structures
- Chemical Plant Containment Areas
- Hairline Cracks or Larger Cracks \* (see note)
- Mounting bolts, equipment, or railings into concrete
- Vertical repairs when combined with specified sand
- Repairing distressed, spalled floors
- Approaches to ramped concrete slabs
- Repairing concrete surfaces prior to coating

**COLOR:** Available in Gray. Custom colors upon request. Colors-to-match can be achieved with colored or pigment aggregates.

#### COVERAGE PER LINEAR FEET:

Approximate coverage per linear feet using a clean and dried 40 to 60 mesh silica sand:

Depth ▼	Width ◀ ▶					
	1/4	3/8	1/2	5/8	3/4	1
1/8	16	11	8	6.5	5.5	4
1/4	8	5.5	4	3	2.7	2
3/8	5.5	3.6	2.7	2.1	1.7	1.3
1/2	4	2.7	2	1.6	1.3	1

#### PACKAGING INFORMATION:

Twin 21 fluid oz cartridge  
2 gallon kit  
10 gallon kit

#### SHELF LIFE & STORAGE:

One year in unopened containers that are stored between 60°F -80°F.

#### PREPARATION:

##### Surface Cracks and Joints

All surfaces shall be free of dirt, dusts, oils and any contaminated loose particulate and any old deteriorated patching compounds. All surface areas shall be dry and clean prior to any application. Cracks may be ground out using a V shaped diamond blade or standard diamond blade cup wheel. Wire brush cup may also be used in areas that do not have any moderate or severe loose laitance.

\*note: Not intended for repairs to surfaces subject to heaving and ground movement and must be applied to concrete free of surface moisture.

# BONDED CCS 10.5™

## PHYSICAL / CHEMICAL CHARACTERISTICS

<b>COMPRESSIVE STRENGTH</b>	With sand: 5900 + psi Without sand: 3310 + psi Will vary depending on the aggregate
ASTM D-695-77	
<b>COMPRESSIVE MODULUS</b>	With sand: 1.42 x 10 <sup>5</sup> psi Without sand: 5.80 x 10 <sup>4</sup> psi
ASTM D-695-77	
<b>TENSILE ELONGATION</b>	Approximately 6%
ASTM D 638-77a	
<b>HARDNESS</b>	72 D Will vary depending on the aggregate
ASTM D-2240/Shore D Durometer	
<b>BOND STRENGTH</b>	>400psi minimum (100% concrete failure)
<b>FLAMMABILITY</b>	Self extinguishing. Extent of burning 0.25 inches max.
ASTM D-635	
<b>WATER ABSORPTION</b>	0.1%
ASTM C-413	
<b>CURE RATE:</b> at 77°F/25°C	Complete in 10 minutes.

## SAFE USE & HANDLING PRECAUTIONS

CCS 10.5 is intended for industrial and commercial use only. Prolonged skin contact may cause irritation. Wear protective clothing and chemical splash goggles to avoid eye contact. Wear a respirator rated for organic compounds when applying this product in poorly ventilated areas. **Make sure all areas are properly ventilated.** Contains isocyanate. Please refer to the MSDS for specific safety concerns. **Ingestion:** Do not induce vomiting. Drink water and seek medical attention immediately. **Inhalation:** Move to fresh air. **Eyes:** Flush with water for 15 minutes and seek medical attention. **Skin:** Wash with soap and water.

## PRECAUTIONS:

Read container labels and Material Safety Data Sheet before using all products. Contact with liquids Part A and B can cause irritation. Wear protective clothing. Cover hands with protective cream and/or gloves. Wear chemical splash goggles. Use only with adequate ventilation.

## CLEAN UP:

Clean up tools immediately after use with MEK, Acetone, Xylene or Toluene. Cured material on tools may be soaked to remove the cured material.

## CURE SCHEDULE:

Suggested application temperatures are between 0° F. and 100° F. (18 to 38 ° C). Material is to be stored at 60° F to 80° F. Depending on the aggregated being used they must be kept dry and at ambient temperatures. CCS 10.5 will cure in approximately 10 minutes @ 77 ° F.

**PLEASE NOTE:** Cure time is affected by temperature. Temperatures below 77 ° F will slow the cure slightly. Contact your BONDED representative for any specific application temperature below 45 ° F.

## MIXING

### CARTRIDGES:

CCS 10.5 is a two-component material. The cartridges are manufactured with a restrictor to limit the flow of the material through the mixing (blending tube at the end of the cartridge. Always keep the nose or tip of the cartridge level or pointing down as to keep any of the blended material from back filling into the two cartridge tube and causing a reaction inside the tube thus causing the material to clog. With the used of the cartridge this way provides the user to be able to mix the two components equally eliminating any problems from the material being not mixed in equal amounts.

**BULK:** Due to the rapid setting nature of the product, pot-mixing of the components is not recommended for crack and joint repairs less than 3/4" in width. BONDED CCS 10.5 supplied in 10 gallon kits may be bucket mixed in quart batches and applied immediately to the repair area. Combined one pint of Part A with one pint of Part B. Mix with a drill mixer or hand mixing stick for 30 seconds or until well blended. Add 2 quarts of manufactured sand and mix for an additional 10 seconds. Pour the entire batch into the repair area immediately. BONDED CCS 10.5 may be dispensed through a one-to-one ratio pump specifically designed to handle extremely low viscosity materials while maintaining exact ratios. The system must not allow the two components to combine until they reach the point of delivery. Contact BONDED for information on acceptable pumping equipment. All pumping equipment must be approved by BONDED prior to application

## NOTICE TO BUYER: DISCLAIMER OF WARRANTIES AND LIMITATIONS ON OUR LIABILITY

*We warrant that our products are manufactured to strict quality assurance specifications and that the information supplied by us is accurate to the best of our knowledge. Such information supplied about our products is not a representation or a warranty. It is supplied on the condition that you shall make your own tests to determine the suitability of our product for your particular purpose. Listed physical properties are typical and should not be construed as specifications. NO WARRANTY IS MADE, EXPRESSED OR IMPLIED, REGARDING SUCH OTHER INFORMATION, THE DATA ON WHICH IT IS BASED, OR THE RESULTS YOU WILL OBTAIN FROM ITS USE. NO WARRANTY IS MADE, EXPRESSED OR IMPLIED, THAT OUR PRODUCT SHALL BE MERCHANTABLE OR THAT OUR PRODUCT SHALL BE FIT FOR ANY PARTICULAR PURPOSE. NO WARRANTY IS MADE THAT THE USE OF SUCH INFORMATION OR OUR PRODUCT WILL NOT INFRINGE UPON ANY PATENT. We shall have no liability for incidental or consequential damages, direct or indirect. Our liability is limited to the net selling price of our product or the replacement of our product, at our option. Acceptance of delivery of our product means that you have accepted the terms of this warranty whether or not purchase orders or other documents state terms that vary from this warranty. No representative is authorized to make any representation or warranty or assume any other liability on our behalf with any sale of our products. Our products contain chemicals that may CAUSE SERIOUS PHYSICAL INJURY. BEFORE USING, READ THE MATERIAL SAFETY DATA SHEET AND FOLLOW ALL PRECAUTIONS TO PREVENT BODILY HARM.*



## TECHNICAL SERVICES:

CALL 1-262-478-9210 FAX: 1-262-437-1353

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