

CONCRETE REPAIR

ARMOR SPALL & GROUT

RAPID CURE SPALL REPAIR & GROUT COATING SYSTEM

DESCRIPTION

CPS Armor Spall & Grout is a rapid cure spall repair and grout coating system all in one product! This repair material is high strength, low viscosity designed for seamless repair for spalled concrete and for filling pin holes and small surface defects on concrete floors before polishing. This two part, 1:1 ratio system is 100% solids and can also be used for rebuilding and repairing broken control joints and voids under concrete or tile.

KEY FEATURES

- Rapid cure in 45 minutes
- Two Products in one!
- Can be mixed with dry aggregate
- Seamlessly blend spalls
- Produces high strength quickly
- Self-leveling
- Self priming
- Minimal odor
- 100% solids
- Meets USDA & FDA requirements

COVERAGE

Spall Repair: To calculate the amount of material required to make a repair, calculate cubic inches by multiplying the approximate length x width x height. Always remember to convert feet to inches. For example a 3" x 3" x 1/2" spall would be 4.5 cubic inches and there are 231 cubic inches per gallon. Add 10-15% to account for waste and overfill.

Grout Coating:

Significant Surface Damage - 200-400 ft² per Gallon

Moderate Surface Damage - 500-700 ft² per Gallon

Minimal Surface Damage - 800-1000 ft² per Gallon

*Coverage rates will vary depending on size of spall and or condition of concrete surface.

APPLICATION

For best results, it is recommended using Armor Spall & Grout after 80 grit step. Clean the area of debris and contaminants that would act to de-bond the Armor Spall & Grout; oils, loose materials, dirt, rubber etc. Expose clean rough concrete for best results.

Tinting (mixing color pack): Pre-mix Armor Spall & Grout Tint Pack (e.g. for 10 gallon kit) with Armor Spall & Grout "B Poly" container for 3 minutes using a drill and paddle mixer until completely

homogeneous. The same applies when no tint is added.

Spall Repair: Cut a vertical edge on large spalls, minimum 1/4" deep around perimeter of spall. Make sure the area is dry. Vacuum any cement dust. Mix small batches of Armor Spall & Grout A & B at a 1:1 ratio into separate mixing containers for no more than 20 seconds and finally mixing them into one mixing container for application. First apply product then sand into the product. Repeat the steps in layers until reaching the finished grade.

Filler: Sand filler should have minimal moisture content. Any grit size, including pea gravel, most common sizes - 12 to 60. Armor Spall & Grout can be used to bond damaged slabs together. Not intended for use where substrate movement is required. Armor Spall & Grout is slightly moisture sensitive.

Grinding to finish grade: Allow the Armor Spall & Grout to set about 45 minutes or until hard. For best results use a flexible grinding cup wheel. Grind smooth with a 7-inch cup wheel. Repair is now ready for traffic.

Grout Coating: Mix small batches of Armor Spall & Grout A & B at a 1:1 ratio into separate mixing containers for no more than 20 seconds and finally mixing them into one mixing container for application. For easiest application, use the CPS Armor Swivel Trowel, pulling product as "tight" (thin) as possible across complete surface of concrete. After approximately 45 - 60 minutes (no longer than 24 hours), continue grinding process. IT CAN BE MORE DIFFICULT TO REMOVE ARMOR SPALL & GROUT UTILIZING STANDARD CONCRETE GRINDING IF NOT PULLED "TIGHT" (THIN) ENOUGH AND THE LONGER PRODUCT IS ALLOWED TO CURE. It is recommended using 100 grit hybrid / transitional diamond tooling when cutting off grout coat application. Aggressive metal bond diamond tooling can potentially pull out grout from small pin holes. Depending on the application and desired finished, other grits and bond types can be used.

*Before application, always do a small test sample in a less-visible area to be sure there are no variables or contaminants in the substrate that may be incompatible with this product.

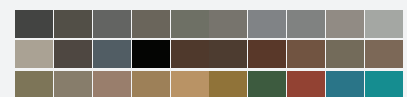
CHEMICAL PROPERTIES

Form:	Liquid
Appearance:	Varies, can be tinted
Odor:	Odorless, no toxic vapors
Viscosity:	Self leveling / 250 cps
Mix Ratio:	1:1
Pot Life:	5 minutes
Initial Cure:	45 minutes
Final Cure:	60 minutes
Shore "D" Hardness:	67 to 72D (ASTM D-2240)
Tensil Strength (PSI):	5800 (ASTM D-412)
Elongation %:	4% (ASTM D-412)
Compressive Strength (PSI):	Material Neat: 6240 Material w/ Sand: 5940 (ASTM D-695)
Adhesion:	Concrete failure (ASTM D7234-12)
Shelf Life:	1 year

AVAILABLE IN

Item #	Container
GPCH0826	2 Gallon Kit
GPCH0827	10 Gallon Kit

ADDITIONAL COLORS AVAILABLE!



CONCRETE REPAIR

ARMOR SPALL & GROUT

RAPID CURE SPALL REPAIR & GROUT COATING SYSTEM

CHEMICAL RESISTANCE

CPS Armor Spall & Grout has been testing using ASTM D-1308 at 72°F.

CHEMICAL	YES	YES-WITH MINOR ISSUES*	SLIGHT DISCOLORATION
ACETIC ACID 10%	•		
ACETONE		•	
BATTERY ACID (SULFURIC)		•	
BRAKE FLUID	•		
CHLORINE (2K PPM IN WATER)	•		
CITRIC ACID	•		
GASOLINE	•		
HYDRAULIC OIL	•		•
METHANOL (5%) GAS		•	
MOTOR OIL	•		•
TOLUENE		•	
VINEGAR	•		
WATER	•		
XYLENE	•		

*Some swelling and or discoloration occurred during testing.

CLEANUP

Cured product may be disposed of without restrictions. Excess liquid A & B material should be mixed together and allowed to cure, then disposed of in the normal manner. Cured materials may be ground in the normal manner. Cured materials may be stripped or peeled from plastic tools and containers. It is recommended that metal tools be cleaned within one hour of use by cutting or peeling cured material from tool.

STORAGE

Store upright in a safe, dry place at 55-85°F. Product should be at least 70°F prior to use. Keep from freezing. Make sure and seal container after use. Do not mix with other chemicals. Product has approximately 1 year shelf life.

WARNING / SAFETY & HEALTH INFORMATION

KEEP OUT OF REACH OF CHILDREN! DO NOT TAKE INTERNALLY!

Before using or handling of this material, read

the Safety Data Sheet (SDS) and Warranty. Avoid contact with eyes, skin and clothing. Avoid breathing vapors or mists generated by this product. Use appropriate eye protection and chemical resistant gloves.

LIMITATIONS

CPS Armor Spall & Grout should not be thinned, solvents will prevent product from properly curing. Avoid exposure to moisture prior to curing. Material is a vapor barrier after cure. Concrete should be at least 28 days old prior to application.

If product comes into contact with glass, fabric, metal or painted surfaces, immediately wipe contaminated surface with a damp cloth, then wipe dry with a second clean cloth.

Make certain the most current versions of the Technical Data Sheet (TDS) and Safety Data Sheet (SDS) are being used. Visit our website (www.go2cps.com) or contact customer service (1-877-472-8200) for additional tips and guidelines. Proper application is the responsibility of the user. Field visits by CPS personnel are for the purpose of making technical recommendations only and not for supervising or providing quality control on the job site.

WARRANTY

The product and application information contained herein is offered in good faith and we believe it to be accurate. However, since conditions and methods of use of our products are beyond our control, this information should not be used in substitution for customer's tests to ensure that our products are safe, effective, and fully satisfactory for the intended end use. Suggestions of use shall not be taken as inducements to infringe any patent. Concrete Polishing Solutions (CPS) sole warranty is that our products will meet our specifications at the time of shipment. Your exclusive remedy for breach of such warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted.

CONCRETE POLISHING SOLUTIONS (CPS) SPECIFICALLY DISCLAIMS ANY OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY. CONCRETE POLISHING SOLUTIONS (CPS) DISCLAIMS LIABILITY FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES.

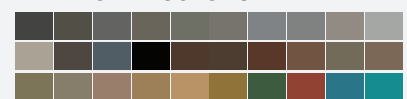
CHEMICAL PROPERTIES

Form:	Liquid
Appearance:	Varies, can be tinted
Odor:	Odorless, no toxic vapors
Viscosity:	Self leveling / 250 cps
Mix Ratio:	1:1
Pot Life:	5 minutes
Initial Cure:	45 minutes
Final Cure:	60 minutes
Shore "D" Hardness:	67 to 72D (ASTM D-2240)
Tensile Strength (PSI):	5800 (ASTM D-412)
Elongation %:	4% (ASTM D-412)
Compressive Strength (PSI):	Material Neat: 6240 Material w/ Sand: 5940 (ASTM D-695)
Adhesion:	Concrete failure (ASTM D7234-12)
Shelf Life:	1 year

AVAILABLE IN

Item #	Container
GPCH0826	2 Gallon Kit
GPCH0827	10 Gallon Kit

ADDITIONAL COLORS AVAILABLE!



SAFETY DATA SHEETS (SDS)



SCAN FOR PART "A" SDS



SCAN FOR PART "B" SDS



SCAN FOR TINT PACK SDS