

CONCRETE REPAIR

ARMOR CRACK MENDER

RAPID CURE CRACK REPAIR

DESCRIPTION

CPS Armor Crack Mender is a rapid cure, high strength, ultra low viscosity urethane crack repair material. This two part, 1:1 ratio system is designed to easily repair and seamlessly blend cracks in concrete floors extremely quickly. Armor Crack Mender also doubles a ultra low viscosity grout coating system for hard concrete.

KEY FEATURES

- Simple crack repair system
- Ultra low viscosity
- Produces high strength quickly
- Self-leveling
- Self priming
- Grade matching
- Various colors and color matching
- Freezer / Cold storage thresholds
- Cures from -20°F to 130°F
- Stops additional damage
- Grout coating system for hard concrete
- Meets USDA & FDA requirements

COVERAGE

For random cracks, estimate as much as possible, the average length. Crack depth is typically unknown causing more or less usage of this product. For bulk repairs, calculate the cubic inches required.

- (1) 22oz Cartridge = 33 cubic inches
- Using sand 1:1 with product will increase coverage rates

Coverage Rate Chart

		Crack Width						
		1/4"	1/2"	3/4"	1"	1.25"	1.5"	
Crack Depth	1/4"	52.9	-	-	-	-	-	
	1/2"	26.5	13.2	-	-	-	-	
	3/4"	17.6	8.8	5.9	-	-	-	
	1"	13.2	6.6	4.4	3.3	-	-	
	1.25"	10.6	5.3	3.5	2.6	2.1	-	
	1.5"	8.8	4.4	2.9	2.2	1.8	1.5	
	1.75"	7.6	3.8	2.5	1.9	1.5	1.2	
	2"	6.6	3.3	2.2	1.6	1.3	1.1	
2.5"	5.3	2.6	1.8	1.3	1.1	.87		
3"	4.4	2.2	1.5	1.1	.87	.73		

*Coverage rates will vary on crack depth and width as well as overfill of product.

APPLICATION

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

- Apply product to the bottom of the crack and work up in layers.
- After product base layer, apply sand into the product, then more product & sand.
- Repeat the steps in layers until reaching the finished grade.

Filler: Sand filler should have minimal moisture content. Grit sizes from 12 to 60. In exterior applications, the use of dry silica sand will reduce discoloration from UV Rays. Armor Crack Mender is slightly moisture sensitive and should not be applied to very wet surfaces.

Grinding to finish grade: Allow Armor Crack Repair to set about 30 minutes or until hard. For best results use a flexible grinding cup wheel. Grind smooth with a 7-inch cup wheel. Scrapping or cutting may also be done with a sharp razor blade cutter. Cut as soon as product is set and not completely hard. Repair is now ready for traffic.

**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.*

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 stripped of 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 used by cutting or peeling cured material from tool.

STORAGE

Store upright in a safe, dry place at 75-95°F (do not store below 45°F). Product should be at least 70°F prior to use. Keep from freezing. Keep out of reach of children. Make sure and seal container after use. Do not mix with other chemicals. Product has approximately 1 year shelf life.

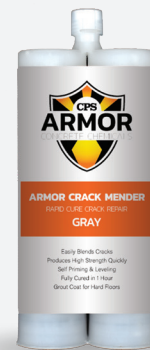
CHEMICAL PROPERTIES

Form:	Liquid
Appearance:	Off-white, can be tinted
Consistency:	Ultra low viscosity
Viscosity (mixed):	19 cps
Mix Ratio:	1:1
Pot Life:	180 seconds
Initial Cure:	30 minutes
Final Cure:	60 minutes
Elongation %:	3-4% (ASTM D-412)
Tensile Strength (PSI):	3950 (ASTM D-412)
Shore "D" Hardness:	67 to 72 D (ASTM D-2240)
Compressive Strength (PSI):	Material Neat: 4200 Material w/ Sand: 4980 (ASTM D-695)
Shelf Life:	1 year

AVAILABILITY

Item #	Container
GPCH0822	22oz Cartridge - Grizzle Gray
GPCH0823	22oz Cartridge - Dovetail
GPCH0824	22oz Cartridge - Warmstone
GPCH0825	22oz Cartridge - Mocha

ADDITIONAL COLORS AVAILABLE!



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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.

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

Do not thin, solvents will prevent product from properly curing. Once cured, material acts as a vapor barrier. Avoid exposure to moisture prior to curing. It is recommended concrete cures for a minimum of 28 days depending on curing and drying conditions prior to application. Product could discolor if constantly exposed to UV radiation due to its aromatic chemistry.

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.

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SAFETY DATA SHEETS (SDS)



SCAN FOR PART "A" SDS



SCAN FOR PART "B" SDS



SCAN FOR TINT PACK SDS