CPR MATERIALS

TECHNICAL DATA SHEET

CPR FLEX

CONCRETE REPAIR

CPR Flex is a fast-curing, high-strength, low-viscosity modified polymer designed for concrete repair. This advanced 100% solids, two-component system, mixed in a 1:1 ratio, is formulated to rapidly and effectively fill and repair cracks in concrete structures.
Its slight flexibility allows for easier shaving and a smoother, more uniform finish.

APPLICATIONS

- Filling cracks in concrete on parking decks and high-traffic areas
- Repairing cracks in areas subjected to heavy loads
- Restoring or "knitting" cracked slabs for structural integrity

LIMITATIONS

- Do not dilute; solvents may interfere with proper curing.
- Avoid exposure to moisture before the material cures.
- Ensure concrete is fully cured for at least 28 days before application.

PHYSICAL PROPERTIES

PROPERTY	VALUE
Viscosity (mixed)	100-130 cps
Shore “D” Hardness (ASTM D-2240)	53 to 56D
Tensil Strength, PSI (ASTM D412)	4900
Pot Life 100 grams at 74°F	180 Seconds
Elongation % (ASTM D-412)	10%-12%
Compressive Strength (ASTM D-695)	
Application Temperature	50º F - 80º F
VOC (Volatile Organic Compund) Content	Less than 420 grams/Liter mixed A&B
Material Neat	3000 psi
Material with Sand	4100 psi
Bond Strength (ASTM 882-99)	4000 psi

ADVANTAGES

- 100% solids formulation.
- Cures effectively in temperatures ranging from -20°F to 130°F.
- Ready for vehicle traffic within 45 minutes.
- Self-leveling for smooth application.
- Self-priming for better adhesion.
- Fast initial set with rapid strength gain.

SDS

Available in
22 oz Cartridges 2 Gallon Kits 10 Gallon Kits

Shelf Life 1 year in original unopened container.

Storage Conditions
Recommended storage temperature is between 75°F to 95°F. Do not store below 45°F.

Pot Life
Approx. 180 Seconds(100 gram mass)

Appearance Off White, Custom Color Matching Available

www.cprmaterials.com
Chihuahua (656)-551-0365 (656)-215-1000
El Paso Tx (915)-241-7909
ventas@cprmaterials.com
sales@cprmaterials.com

CPR FLEX CONCRETE REPAIR

COVERAGE INFORMATION

- Account for waste when calculating material.
- For random cracks, estimate the average size.
- Crack depth may vary, resulting in more or less product usage.
- For bulk repairs, calculate the required cubic inches.
- 1 gallon covers approximately 231 cubic inches.
- Mixing 1 part sand with 1 part product typically doubles the yield

22 OUNCE CARTRIDGE COVERAGE RATE - LF PER CARTRIDGE

CRACK DEPTH	1/8"	3/16"	1/4"	3/8"	1/2"	3/4"	1"
1/8"	1232	821	616	411	308	205	154
1/4"	616	411	308	205	154	103	77
1/2"	308	205	154	103	77	51	39
3/4"	205	137	103	68	51	34	26
1"	154	103	77	51	39	26	19
1 1/2"	103	68	51	34	26	19	13
2"	77	51	39	26	19	13	10
2 1/2"	62	41	31	21	15	10	7
3"	51	34	26	17	13	8	6
4"	39	26	19	13	10	7	5

CHEMICAL RESISTANCE

Test Procedure; ASTM D-1308 @72°F

R= Recommend

RC = Recommend Conditional = some swelling or discoloration

N = Not Recommend

1 = Some discoloration only

Chemical	Result
Acetic Acid 10 %	R
Acetone	RC
Battery Acid (Sulfuric Acid)	RC
Brake fluid	R
Chlorine (2,000 ppm in water)	R
Citric Acid	R
Gasoline	R
Hydraulic Oil	R-1
Methanol (5%) Gasoline	RC
Motor Oil	R-1
Toluene	RC
Vinegar	R
Water	R
Xylene	R

APPLICATION RECOMMENDATIONS

- Condition the material to at least 70°F (21°C) before use.
- If tinting is required, add the color to Part B only and mix for at least 90 seconds.
- For bulk applications, measure equal parts of Part A and Part B in separate plastic containers, then pour them into a third container and stir for at least 20 seconds.

Surface Preparation:

- Clean the area thoroughly to remove debris, oil, loose materials, dirt, and rubber.
- For best results, expose clean, rough concrete.
- If using a saw to cut the concrete, ensure all dust is removed and the surface is completely dry.
- Vacuum or blow off any remaining cement dust.
- CPR Flex is slightly moisture-sensitive and should not be applied to wet surfaces.

Curing and Finishing:

- Allow the material to cure for at least 1 hour before shaving flush with a razor scraper.
- After 3 hours, the material may harden and require grinding flush with a flexible grinding wheel.

SAFETY & HANDLING

- The Safety Data Sheet (SDS) will be provided upon receipt of a purchase order or upon request. All personnel should thoroughly read and understand the safety information before handling the product.
- Personal Protective Equipment (PPE):
- Wear long-sleeved coveralls or disposable overalls.
- Use rubber gloves, splash shields, and rubber or leather boots.
- Precautions:
- Do not use near high heat or open flames.
- Do not ingest.
- Keep out of reach of children.

DISPOSAL & CLEAN UP

- Container Disposal:
- Empty containers must be drip-free before disposal. Cured product can be discarded without restrictions.
- Excess Material Disposal:
- Any remaining liquid from Part A and Part B should be mixed, allowed to cure, and then disposed of as regular waste.
- Cleaning Tools:
- Cured material can be stripped or peeled off from plastic tools and containers.
- It is recommended to clean metal tools within one hour of use by cutting or peeling off any cured material to prevent buildup.