



# MVP GEL CRACK PATCH

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## DESCRIPTION

**MVP GEL CRACK PATCH™** IS A TWO COMPONENT, SAG RESISTANT STRUCTURAL EPOXY SYSTEM DESIGNED TO REPAIR VERTICAL OR HORIZONTAL CRACKS. IT HAS EXCELLENT ADHESION TO CONCRETE, MASONRY, WOOD, METAL AND PLASTICS.

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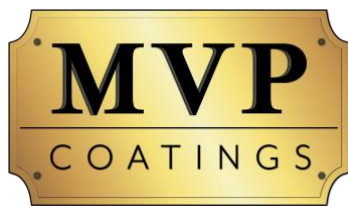
## PRIMARY APPLICATIONS

- ✓ RESTAURANTS
- ✓ PHARMACEUTICAL
- ✓ RESIDENTIAL HOMES
- ✓ GARAGES
- ✓ RETAIL SPACES
- ✓ CAFES
- ✓ AIRPLANE HANGARS

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## ADVANTAGES

- ✓ LOW VOC CONTENT
- ✓ 100% SOLIDS
- ✓ NO SOLVENT ODORS
- ✓ SUPERIOR MECHANICAL RESISTANCE
- ✓ WATERPROOF
- ✓ MAY BE APPLIED VERTICALLY
- ✓ APPLIES TO MANY DIFFERENT SURFACE MATERIALS
- ✓ MAY APPLY SEVERAL LAYERS, EXCELLENT ADHESION TO SELF



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MVP COATINGS

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TECHNICAL DATA			
PACKAGING		COLOR	
3 LITER		CLEAR OPTIONAL COLOR PACKS GREY, BEIGE	
VISCOCITY @ 73°			
PART A	PART B	PRODUCT QUALITY AND STORAGE	
95000-110000	95000-110000	SHIPPING AND STORAGE TEMPERATURES FOR PART-A AND PART-B IS BETWEEN 40 F - 90 F AT OR BELOW 50% RELATIVE HUMIDITY, AVOIDING FREEZING TEMPERATURES. IF SHIPPING OR STORAGE TEMPERATURES SHOULD FALL BELOW 65°F (18°C), SOME CRYSTALLIZATION COULD RESULT. UNLESS PROPER ACTION IS TAKEN TO RE-FORM THE ORIGINAL SOLUTION, SUBSEQUENT DIMERIZATION WILL PROCEED QUICKLY AND WILL DETERIORATE THE ASSAY OF THE PRODUCT. NEVER STORE DIRECTLY ON CONCRETE SURFACE, ALWAYS STORE ON PALLETS. DO NOT OPEN UNTIL READY TO USE AND KEEP CONTAINERS SEALED TIGHTLY.	
MIX RATIO BY VOLUME			
A:B = 100:50			
<i>*NOTE: COVERAGE RATES FOR ALL PRODUCTS ARE APPROXIMATE AND VARY BASED ON THE TYPE OF SUBSTRATE, SUBSTRATE POROSITY AND ROUGHNESS AND SIZE OF BROADCAST AGGREGATE.</i>			
WORK TIME	VOC (G/LITRE)		
20-30 MINS @ 77°	>40 G/L		
SOLIDS (ASTM D 2697)	RECOMMENDED THINNER		
100%	XYLENE	EPOXY 100	
SUBSTRATE TEMPERATURE		68°	
RE-COAT TIME (MIN-MAX)		8-24 HRS	
CURING DETAILS	TACK FREE	24 HRS	

PHYSICAL PROPERTIES	
VOC	TENSILE STRENGTH (PSI) (ASTM D-638)
>40	6500-7500
COMPRESSIVE STRENGTH (PSI) (ASTM D-695)	ELONGATION (%) (ASTM D-638)
13000-15000 PSI	3-4%



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## SURFACE PREPARATION

CONCRETE SHOULD BE CURED FOR A MINIMUM OF 30 DAYS PRIOR TO PRODUCT APPLICATION AND HAVE AT LEAST 3000 PSI COMPRESSIVE AND 220 PSI TENSILE STRENGTH.

SURFACE PREPARATION IS THE ESSENTIAL FIRST STAGE TREATMENT OF A SUBSTRATE BEFORE THE APPLICATION OF ANY COATING. THE PERFORMANCE OF A COATING IS SIGNIFICANTLY INFLUENCED BY ITS ABILITY TO ADHERE PROPERLY TO THE SUBSTRATE MATERIAL. IT IS GENERALLY ESTABLISHED THAT CORRECT SURFACE PREPARATION IS THE MOST IMPORTANT FACTOR AFFECTING THE TOTAL SUCCESS OF SURFACE TREATMENT. SURFACES WILL BE CLEAN, DRY, AND SOUND, THE PRESENCE OF EVEN SMALL AMOUNTS OF SURFACE CONTAMINANTS, DUST, EFFLORESCENCE, LAITANCE, SALTS, CURING COMPOUNDS, DIRT, OIL, FORM RELEASE AGENTS, AND OTHER FOREIGN MATTER CAN PHYSICALLY IMPAIR AND PREVENT COATING ADHESION TO THE SUBSTRATE. A PRIMER SHOULD BE USED TO REDUCE OUT-GASSING IN POROUS SUBSTRATES TO PROMOTE ADHESION.

GRIND OR SHOT BLAST CONCRETE BETWEEN CSP 2 - 7.

GRINDING IS PERMITTED ONLY IN AREAS THAT ARE INACCESSIBLE TO SHOT BLASTING EQUIPMENT.

**EMISSION TESTING:** ALL AREAS TO BE TREATED MUST BE TESTED IN ACCORDANCE WITH ASTM F-2170 (STANDARD TEST METHOD FOR DETERMINING RELATIVE HUMIDITY IN CONCRETE FLOOR SLABS USING IN SITU PROBES). ANHYDROUS CALCIUM CHLORIDE TESTS (ASTM F-1869-11) MAY BE USED ONLY WHERE HVAC IS ON 24X7 AT LEAST ONE WEEK BEFORE AND DURING TESTS AND ONLY BY APPROVAL OF MVP COATINGS, INC. NEW CONCRETE: TESTING SAMPLE CORES OF CONCRETE SLAB FOR PRESENCE OF SEALERS OR OTHER BOND BREAKERS IS STRONGLY RECOMMENDED. TO OBTAIN WARRANTY, FILL OUT WARRANTY APPLICATION. FLOOR AREA, LOCATION OF TESTS, AMBIENT TEMPERATURES AND HUMIDITIES DURING TESTS SHOULD BE RECORDED AND MAPPED, WITH AT LEAST ONE TEST PERFORMED FOR EACH 1000 SQ. FT. OF FLOOR SURFACE TO BE TREATED.

**CONCRETE:** ALL SURFACE MUST BE CLEAN, SOUND, SOLID, OPEN PORE AND ABSORPTIVE. SLAB MUST BE AT LEAST 4" THICK AND ANY DISTINCT LAYER AT LEAST 2" THICK TO BE CONSIDERED STRUCTURALLY SOUND. REPAIR AND LEVELING LAYERS CONTAINING LATEX OR OTHER COMPONENTS GENERALLY PREVENT ABSORPTION AND PROPER BOND AND SHOULD BE REMOVED. SURFACE SHOULD BE MECHANICALLY PREPARED TO ACHIEVE A SURFACE PROFILE OF ICRI CSP 2-5 (INT. CONCRETE REPAIR INST.) BEAD OR SHOTBLAST STRONGLY PREFERRED. ACID ETCHING IS NOT PERMITTED, NOR CHEMICAL REMEDIATION OF ANY ADHESIVE RESIDUES. SURFACE MUST BE CLEAN, COMPLETELY FREE OF DUST, DIRT, PAINT, SEALER OR ANY CONTAMINANT WHICH MIGHT INTERFERE WITH PENETRATION OR BOND. DO NOT APPLY TO FLOORS WHICH HAVE SEALERS OR BOND BREAKERS APPLIED UNLESS COMPLETELY REMOVED. QUICK TESTS TO HELP DETERMINE CLEAN, OPEN AND ABSORPTIVE CONCRETE USE WATER DROPS. IF DIME SIZE WATER DROPS PLACED AT SEVERAL LOCATIONS ON PREPARED FLOOR DO NOT READILY ABSORB INTO CONCRETE WITHIN 30 SECONDS OR BEADS UP, SURFACE IS NOT SUFFICIENTLY ABSORPTIVE. IN ALL CASES, THOROUGH VACUUMING (WITH DUST CONTAINMENT FILTER) IS NEEDED BEFORE APPLICATION. CLEANING WITH PRESSURE WASHER MAY BE ADVISABLE IN SOME CASES.



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## APPLICATION METHOD

THROUGHOUT THE APPLICATION THE SURFACE MUST BE CLEAN AND DRY.

FOR OPTIMUM RESULTS PROCEED WITH APPLICATION WHILE AIR TEMPERATURES ARE BETWEEN 50 F (7.22° C) AND 90 F (35° C). ENSURE THAT THE OUTSIDE TEMPERATURE IS 50°F AND AT LEAST 5° F ABOVE THE DEW POINT AND RISING. APPLY WHILE THE OUTSIDE TEMPERATURE IS DESCENDING, HIGH OR LOW TEMPERATURES AND HUMIDITY CAN SIGNIFICANTLY AFFECT THE CURE TIME AND POT LIFE.

MATERIALS SHOULD ALWAYS BE KEPT AT A MINIMUM TEMPERATURE OF 15°C (59°F) PRIOR TO USE.

POUR COMPONENT B INTO COMPONENT A USING THE PROPER MIXING RATIO OF 2A:1B BY VOLUME.

MIX BOTH COMPONENTS FOR AT LEAST 3 MINUTES USING A DRILL AT LOW REVOLUTION (300 TO 450 RPM) TO REDUCE TRAPPING OF AIR.

WHILE MIXING, SCRAPE BOTTOM AND WALLS OF CONTAINER AT LEAST ONCE TO ENSURE A HOMOGENEOUS MIX. ONLY PREPARE QUANTITY THAT MAY BE APPLIED DURING POT LIFE OF MIXTURE.

APPLY MIXED PRODUCT ON THE PREPARED SURFACE USING A TROWEL OF A PUTTY KNIFE.

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## CLEANING

ALL SPILLED MATERIAL, UNUSED CONTENTS OF CONTAINERS, EMPTY CONTAINERS AND SECONDARY CONTAINMENT SPILLS AND LEAKS MUST BE CLEANED UP IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. ACETONE CAN BE USED FOR CLEANING TOOLS.

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## RESTRICTIONS

- ✓ MINIMUM/MAXIMUM TEMPERATURE OF SUBSTRATE: 15°C / 30°C (59°F / 86°F).
- ✓ MAXIMUM RELATIVE HUMIDITY DURING APPLICATION AND CURING: 85%.
- ✓ SUBSTRATE TEMPERATURE MUST BE 15°C (59°F) ABOVE DEW POINT MEASURED.
- ✓ HUMIDITY CONTENT OF SUBSTRATE MUST BE < 4 % WHEN COATING IS APPLIED.
- ✓ DO NOT APPLY ON POROUS SURFACES WHERE A TRANSFER OF HUMIDITY MAY OCCUR DURING APPLICATION.
- ✓ AVOID EXTERIOR USE ON SUBSTRATES AT GROUND LEVEL.
- ✓ PROTECT FROM HUMIDITY, CONDENSATION AND CONTACT WITH WATER DURING THE 24-HOUR INITIAL CURING PERIOD.
- ✓ SURFACE MAY DISCOLOR IN AREAS EXPOSED TO REGULAR ULTRAVIOLET LIGHT.



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## HEALTH AND SAFETY

IN CASE OF SKIN CONTACT, WASH WITH WATER AND SOAP. IN CASE OF EYE CONTACT, IMMEDIATELY RINSE WITH WATER FOR AT LEAST 15 MINUTES. CONSULT WITH A DOCTOR. FOR RESPIRATORY PROBLEMS, TRANSPORT VICTIM TO FRESH AIR. REMOVE CONTAMINATED CLOTHES AND CLEAN BEFORE REUSE. COMPONENTS A AND B CONTAIN TOXIC INGREDIENTS. PROLONGED CONTACT OF THIS PRODUCT WITH THE SKIN IS SUSCEPTIBLE TO PROVOKE AN IRRITATION. AVOID EYE CONTACT. CONTACT WITH MAY CAUSE SERIOUS BURNS. AVOID BREATHING VAPORS RELEASE FROM THIS PRODUCT. THIS PRODUCT IS A STRONG SENSITIZER. WEAR SAFETY GLASSES AND CHEMICAL RESISTANT GLOVES. A BREATHING APPARATUS FILTERING ORGANIC VAPORS APPROVED BY THE NIOSH/MSHA IS RECOMMENDED. PREDICT SUITABLE VENTILATION. CONSULT THE MATERIAL SAFETY DATA SHEET FOR FURTHER INFORMATION.

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## PROFESSIONAL USE ONLY

READ AND UNDERSTAND ALL THE INFORMATION CONTAINED IN THE PRODUCT TECHNICAL DATA SHEETS, SDS SHEETS AND PRODUCT LABELS PRIOR TO STARTING ANY PROJECT. NOTHING CONTAINED IN ANY OF MVP COATINGS™, INC. MATERIALS RELIEVES THE END USER OF THE OBLIGATION TO READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS FOR EACH OF MVP COATINGS™, INC. PRODUCTS.

SPECIFICATION AND FIELD ASSISTANCE:

CONTACT MVP COATINGS, INC. FOR ASSISTANCE. JOBSITE VISITS BY MVP COATINGS™, INC. EMPLOYEES OR ITS INDEPENDENT AGENTS ARE SOLELY FOR DETERMINING QUALIFICATION FOR WARRANTY.

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## WARRANTY STATEMENT

MVP COATINGS™ WARRANTS PRODUCTS TO BE FREE FROM MANUFACTURING DEFECTS AND DEFECTIVE RAW MATERIALS FOR A PERIOD OF 1 YEAR. LIABILITY FOR PRODUCTS PROVEN DEFECTIVE IS LIMITED TO REPLACEMENT OF THE DEFECTIVE PRODUCT.

NOT INCLUDED IN THE WARRANTY IS DAMAGE DUE TO STRUCTURAL DESIGN DEFICIENCIES INCLUDING BUT NOT LIMITED TO SLAB CRACKING, GOUGING OR OTHER DAMAGE DUE TO EQUIPMENT, DELAMINATION CAUSED BY VAPOR TRANSMISSION, OR OTHER ELEMENTS BEYOND THE SCOPE OF PROTECTION OF THIS SYSTEM.

THE INFORMATION AND RECOMMENDATIONS CONTAINED IN THIS DOCUMENT ARE BASED ON RELIABLE TEST RESULTS ACCORDING TO THE MANUFACTURER OF THE PRODUCT. THE DATA MENTIONED IS SPECIFIC TO THE MATERIAL INDICATED. IF USED IN COMBINATION WITH OTHER MATERIALS, THE RESULTS MAY BE DIFFERENT. IT IS THE RESPONSIBILITY OF THE USER TO VALIDATE THE INFORMATION THEREIN AND TO TEST THE PRODUCT BEFORE USING IT. MVP COATINGS, INC. ASSUMES NO LEGAL RESPONSIBILITY FOR THE RESULTS OBTAINED IN SUCH CASES. MVP COATINGS, INC. ASSUMES NO LEGAL RESPONSIBILITY FOR ANY DIRECT, INDIRECT, CONSEQUENTIAL, ECONOMIC OR ANY OTHER DAMAGES EXCEPT TO REPLACE THE PRODUCT OR TO REIMBURSEMENT THE PURCHASE PRICE, AS SET OUT IN THE PURCHASE CONTRACT.