



POLYASPARCTIC USC 100™

**100% SOLIDS ALIPHATIC POLYASPARCTIC/POLYUREAU
ULTRA SLOW CURE TOP COAT**

DESCRIPTION

POLYASPARCTIC USC 100™ IS A TWO-COMPONENT 100% SOLIDS ALIPHATIC POLYASPARCTIC/POLYUREAU TOP COAT WITH EXCELLENT UV AND COLOR RETENTION. DESIGNED FOR COMMERCIAL, INDUSTRIAL AND MANUFACTURING ATMOSPHERES. POLYASPARCTIC USC 100™ IS A SPRAY OR ROLLER APPLICATION FOR USE ON CONCRETE, WOOD AND METAL SURFACES. CAN BE APPLIED IN ONE OR MORE PASSES.

PRIMARY APPLICATIONS

- ✓ COLD STORAGE/FOOD PROCESSING FACILITIES
 - ✓ COMMERCIAL RESTAURANTS
 - ✓ COMMERCIAL RETAIL SPACES
 - ✓ INDUSTRIAL SPACES
 - ✓ MANUFACTURING FACILITIES
 - ✓ PARKING STRUCTURES
 - ✓ TOP COAT
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ADVANTAGES

- ✓ 0 – VOC'S CONTENT
 - ✓ 100% SOLIDS
 - ✓ ABRASION RESISTANT
 - ✓ EXCELLENT COLOR AND GLOSS RETENTION
 - ✓ MEETS USDA CRITERIA
 - ✓ NO SOLVENT ODORS
 - ✓ USGBC LEED, EQ CREDIT 4.2: LOW-EMITTING VOC COMPLIANT MATERIALS
 - ✓ UV STABLE
-

MVP COATINGS

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TECHNICAL DATA

PACKAGING		COLOR (ADD TO PART B ONLY)	
3 GALLONS (1 GAL PART A : 2 GAL PART B)		CLEAR	GRAY TAN
RECOMMENED THICKNESS		BLACK	CUSTOM COLORS SPECIAL ORDER
CLEAR OR PIGMENTED	20 MILS = 80 FT² GAL 3 MILS = 500 FT² GAL	PRODUCT QUALITY AND STORAGE	
		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			
1 PART A : 2 PART B			
<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>			
POT LIFE	VOC (G/LITRE)	VISCOSITY @ 75°	
20-30 MIN @ 75°, 50% RH	0 G/L	PART A	PART B
SOLIDS (ASTM D 2697)	RECOMMENDED THINNER	3000 CPS	500 CPS
100%	NONE	POLYASPARCTIC USC 100 IS UV STABLE	
SUBSTRATE TEMPERATURE		40° - 90°	OVER POLYUREAU
RE-COAT TIME (MIN-MAX)		6-20 HRS	2-8 HRS
CURING DETAILS	TACK FREE	4-6 HRS	-
	LIGHT TRAFFIC	14-18 HRS	-
	MEDIUM TRAFFIC	26-50 HRS	-
	HEAVY TRAFFIC	55 -78 HRS	-
HEAVIER APPLICATIONS WILL REQUIRE A LONGER CURING TIME			
<i>*NOTE: DRY TIMES AND WORK TIMES ARE SENSITIVE TO THICKNESS AND SUBSTRATE TEMPERATURES. TIMES AND DATA MENTIONED ARE BASED ON LABORATORY CONDITIONS. FIELD RESULTS MAY VARY AND WILL BE AFFECTED BY CHANGING AMBIENT CONDITIONS, ESPECIALLY CHANGES IN TEMPERATURE AND RELATIVE HUMIDITY.</i>			

PHYSICAL PROPERTIES

HARDNESS SHORE D (ASTM D-2240)	TEAR RESISTANCE, DIE C (ASTM D-412)
70 +/- 5%	530 PIL
TENSILE STRENGTH (ASTM D-412)	IMPACT RESISTANCE ASTM D-2794
3032 +/- 10% PSI	PASSES 160 IN. LB.



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SURFACE PREPARATION

CONCRETE SHOULD BE CURED FOR 28 DAYS (LESS THAN 28 DAYS A MOISTURE VAPOR REDUCING PRIMER MAYBE REQUIRED) 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.

SHOT BLAST CONCRETE BETWEEN CSP 3 - 7. PROFILE STEEL BETWEEN 4-6 MILS.

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

MIXING

DO NOT MIX PARTIAL CONTAINERS OF MULTI-COMPONENT MATERIALS.

DO NOT DILUTE UNDER ANY CIRCUMSTANCES.

ADEQUATELY MIX POLYASPARCTIC USC 100™ PART-A AND PART-B SEPARATELY WITH A DRILL MOTOR AND PROPER MIXING BLADE BEFORE COMBINING. ONE PART-A AND PART-B ARE COMBINED MIX AGAIN UNTIL THE MIXTURE AND COLOR ARE CONSISTENT.

POLYASPARCTIC USC 100™ SHOULD BE USED WITHIN 20 - 30 MINUTES OF MIXING.



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APPLICATION METHOD

PRIMER IS REQUIRED ON ALL SUBSTRATES, EXCEPT ON PROPERLY PREPARED STEEL.

THROUGHOUT THE APPLICATION THE SURFACE MUST BE CLEAN AND DRY.

FOR OPTIMUM RESULTS PROCEED WITH APPLICATION WHILE AIR AND SUBSTRATE TEMPERATURES ARE BETWEEN 32° F (0° C) AND 104° F (40° C) 6° (-14.44° C) ABOVE THE DEW POINT AND RISING.

APPLY POLYASPARCTIC USC 100™ ONTO THE HORIZONTAL SURFACE AND SPREAD EVENLY OVER THE ENTIRE SURFACE USING RUBBER SQUEEGEE, THEN BACK ROLL USING A 1/4 "MOHAIR ROLLER WITH A PHENOLIC RESIN CORE. ON VERTICAL SURFACES USE A 1/4 "MOHAIR ROLLER WITH A PHENOLIC RESIN CORE

WHEN POLYASPARCTIC USC 100™ TOP COAT IS APPLIED IN SECTIONS, EACH APPLICATION MUST OVERLAP THE PREVIOUS ONE WITHIN (18) EIGHTEEN HOURS BY A MINIMUM FOUR (4") TO A NEAT STRAIGHT LINE.

RECOAT WINDOW IS WITHIN (18) EIGHTEEN HOURS OF APPLICATION.

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.

RESTRICTIONS

- ✓ THIS PRODUCT IS BEST APPLIED AT A TEMPERATURE RANGE OF 50°F-85°F. WITH 40%-60% HUMIDITY
- ✓ DO NOT APPLY AT A COVERAGE RATE BELOW 75 FT²/GALLON.
- ✓ EXCESSIVE MOISTURE VAPOR IN CONCRETE SLABS MAY CAUSE THE COATING TO DELAMINATE, DISCOLOR OR CAUSE IMPROPER CURING
- ✓ HIGH/LOW TEMPERATURES AND HUMIDITY CAN AFFECT POT LIFE AND EXTEND THE CURE TIME
- ✓ SUBSTRATES THAT HAVE BEEN PREVIOUSLY COATED ARE SUBJECT TO ABSORPTION, WHICH MAY AFFECT THE ADHESION OF A NEW COATING.
- ✓ ADHESION TO SUBSTRATE SHOULD BE TESTED AT LEAST 7 DAYS PRIOR TO STARTING ANY COATING PROJECT
- ✓ DO NOT OPEN CONTAINERS UNTIL READY TO USE AND KEEP SEALED TIGHTLY
- ✓ IT IS THE RESPONSIBILITY OF THE END USER TO CHECK THE SUITABILITY OF THIS PRODUCT AND THE SUBSTRATE PRIOR TO ITS APPLICATION. MVP COATINGS, INC. ASSUMES NO LIABILITY FOR SUBSTRATE DEFECTS.



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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.

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.

WARRANTY STATEMENT

MVP COATINGS™ WARRANTS OUR 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.