



URETHANE MC 98™

HIGH SOLIDS POLYURETHANE TOP COAT MOISTURE CURE URETHANE

DESCRIPTION

URETHANE MC 98™ IS A 98% SOLIDS, HIGH PERFORMANCE POLYURETHANE POLYUREAU TOPCOAT FOR RESIONS FLOORS AND WALLS. THIS SYSTEM HAS AN EXTREMELY LOW ODOR, CONTAINS LOW VOC'S, AND IS A UV LIGHT STABLE POLYURETHANE THAT WON'T CHALK OR TURN YELLOW WITH EXPOSURE TO SUNLIGHT. PROPERTIES INCLUDE EXCELLENT CHEMICAL RESISTANCE AGAINST ACIDS, BASES, OILS, AND ORGANIC SOLVENTS, AND HIGHER WEAR RESISTANCE THAN POLYASPARTIC, SOLVENT- BASED URETHANE, AND EPOXY COATINGS. THIS POLYURETHANE DEVELOPS A HARD, HIGH-GLOSS, WEAR-RESISTANT, FLEXIBLE FILM THAT CAN BE USED AS A CLEAR OR PIGMENTED TOPCOAT.

PRIMARY APPLICATIONS

- ✓ BREWERIES
- ✓ PHARMACEUTICALS
- ✓ MANUFACTURING
- ✓ WAREHOUSES
- ✓ LABORATORIES
- ✓ CHEMICAL PLANTS
- ✓ AUTOMOTIVE REPAIR CENTERS
- ✓ DISTILLERIES
- ✓ LOCKER ROOMS AND RESTROOMS
- ✓ FIRE AND POLICE STATIONS
- ✓ OUTDOOR LOGOS/DECORATIVE CONCRETE
- ✓ AIRCRAFT HANGARS

ADVANTAGES

- ✓ VOC'S COMPIANT IN ALL 50 STATES
- ✓ HIGH GLOSS
- ✓ LOW ODOR
- ✓ DUAL-COMPONENT, 3A:1B
- ✓ COVERAGE RATE: 500-550 SQFT/GAL
- ✓ ALIPHATIC, UV-STABLE, WILL NOT YELLOW
- ✓ EXCELLENT STAIN RESISTANCE
- ✓ COLOR PACKS AVAILABLE
- ✓ HIGH CHEMICAL, MOLD AND FUNGUS RESISTANCE
- ✓ BETTER ABRASION RESISTANCE THAN POLYASPARCTICS, WEAR RESISTANCE, ELONGATION, TENSILE STRENGTH SOLVENT-BASED URETHANES AND EPOXIES
- ✓ ALUMINUM OXIDE CAN BE ADD FOR EXTRA SLIP OR ABRASION RESISTANCE



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TECHNICAL DATA

PACKAGING		COLOR			
1 GALLON		CLEAR	COLOR PACKS AVAILABLE		
RECOMMENDED THICKNESS		GLOSS	8 STD COLORS, SEE COLOR CHART		
CLEAR FINISH	3 MIL = 500-550 FT² GAL MUST BE APPLIED < 4 MIL	SHELF LIFE 12 MONTHS IN ORIGINAL UNOPENED FACTORY SEALED CONTAINERS. KEEP AWAY FROM EXTREME COLD, HEAT, OR MOISTURE. KEEP OUT OF DIRECT SUNLIGHT AND AWAY FROM FIRE HAZARDS. DO NOT RE-USE PREVIOUSLY OPENED CONTAINERS.			
COLORED FINISH					
MIX RATIO BY VOLUME					
3 PART A : 1 PART B					
<i>*NOTE: THAT THE INDICATED MILEAGE IS CALCULATED FOR FLAT OR PRE-COATED SURFACES. A POROUS OR IMPERFECT SURFACE WILL REQUIRE MORE MATERIAL IN ORDER TO COVER THE SAME MILEAGE.</i>					
POT LIFE	VOC (G/LITRE)	VISCOSITY @ 70°			
2 HRS @ 70°	<50 G/L	GLOSS	MATTE	COLORED	
SOLIDS BY WEIGHT %	RECOMMENDED THINNER	20-400 CPS	-	-	
98%	NONE	-	-	-	
SUBSTRATE TEMPERATURE		70°			
RE-COAT TIME (MIN-MAX)		12-72 HRS	-	-	
CURING DETAILS	TACK FREE	4-6 HRS	-	-	
	LIGHT TRAFFIC	24 HRS	-	-	
	FULL CURE	7 DAYS	-	-	
<i>*NOTE: 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>					

MECHANICAL PROPERTIES

SURFACE PREP REQUIRED	FLAME TEST, ASTM D64
ICRI CSP-3, PRIMED	CLASS 1
HARDNESS, KONIG (15 MILS), ASTM D4366	ABRASION RESISTANCE, ASTM D4060
150	30 MG LOSS
TENSILE STRENGTH, ASTM D2370	COEFFICIENT OF FRICTION, ASTM D2047
5%	0.7 SMOOTH
WATER ABSORPTION, ASTM D570	IMPACT RESISTANCE, ASTM D2794
< 0.1%	160 IN./LB.



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SURFACE PREPARATION

IF APPLYING OVER AN EXISTING COATING, THOROUGHLY SAND THE COATING WITH 120-220 GRIT SCREEN AND CLEAN TO ENSURE A STRONG BOND BETWEEN COATS. AFTER SANDING, VACUUM THOROUGHLY TO REMOVE ANY DUST OR DIRT. DO NOT USE WATER TO CLEAN A FLOOR PRIOR TO APPLICATION. IF APPLYING DIRECT TO CONCRETE, BE SURE CONCRETE IS CLEAN AND DRY. EXCESS MOISTURE WILL CAUSE BUBBLES TO FORM IN THE FINAL FILM. THE CONCRETE MUST BE MECHANICALLY GROUND OR SHOT-BLAST TO A PROFILE RESEMBLING ICRI-CSP3. THE CONCRETE MUST BE AT LEAST 28 DAYS OLD AND DRY. SEE "LIMITATIONS" SECTION FOR ACCEPTABLE SLAB MOISTURE CONTENT. A PRIMER APPLICATION USING 100% SOLIDS EPOXY IS PREFERRED BEFORE APPLYING URETHANE MC 98™ POLYURETHANE.

MIXING

URETHANE MC 98™ IS A DUAL-COMPONENT PRODUCT, IT IS RECOMMENDED TO PRE-MIX THE CONTENTS OF THE CONTAINER BEFORE APPLYING WITH A STIR STICK OR SLOW SPEED DRILL. WHEN ADDING PIGMENT PACKS, MIX A AND B TOGETHER FIRST THEN ADD PIGMENT.

APPLICATION METHOD

TYPICAL APPLICATION THICKNESS IS 3-4 MILS WET, WHICH YIELDS 3-4 MILS DFT. USE A NON-SHEDDING MOHAIR ROLLER WITH 3/16"-1/4" NAP. LARGER NAP ROLLERS MAY CAUSE BUBBLES IN THE FILM. USE A DIP AND ROLL WITH A FINAL CROSS ROLL TECHNIQUE. DO NOT LEAVE PUDDLES OF MATERIAL ON THE SURFACE. COVERAGE RATES VARY BASED ON SUBSTRATE, SEE BELOW. USE ACETONE OR MEK TO CLEAN TOOLS. RE-COAT TIME IS 12-20 HOURS AFTER INITIAL COAT. HIGH TEMPERATURES AND HUMIDITY WILL SHORTEN RE-COAT AND WORK TIME.

IF USING A COLOR PACK, USE ONE 16-OUNCE CONTAINER PER GALLON OF PRODUCT. ADD THE PACK TO THE MIXED MATERIAL AND MIX AT LOW-MEDIUM SPEED FOR 60 SECONDS OR UNTIL UNIFORM USING A CLEAN, DRY MIXING BLADE. FOLLOW APPLICATION INSTRUCTIONS ABOVE. THIS PRODUCT IS SENSITIVE TO MOISTURE. KEEP CONTAINERS CLOSED AS MUCH AS POSSIBLE DURING APPLICATION. ONCE A COLOR PACK OR MATTE ADDITIVE IS INTRODUCED INTO THE URETHANE MC-98™, THE MATERIAL MUST BE USED WITHIN THE WORKING TIME SPECIFICATION.

CLEANING

CLEAN ALL APPLICATION EQUIPMENT WITH SOAP AND WATER. ONCE THE PRODUCT HAS HARDENED, IT CAN ONLY BE REMOVED BY MECHANICAL MEANS. IN CASE OF SKIN CONTACT, WASH THOROUGHLY WITH WARM SOAPY WATER.



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RESTRICTIONS

- ✓ THIS PRODUCT IS BEST APPLIED AT A TEMPERATURE RANGE OF 50°F-85°F. WITH 40%-60% HUMIDITY, HIGH TEMPS AND/OR HUMIDITY WILL AFFECT WORKING TIME
- ✓ DO NOT ALLOW MATERIAL TO PUDDLE
- ✓ DO NOT APPLY AT A COVERAGE RATE BELOW 400 FT²/GALLON. EXCESSIVE FILM THICKNESS MAY CAUSE FOAMING IN FINAL FILM

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.

PREOFESSIONAL USE ONLY

READ AND UNDERSTAND ALL THE INFORMATION CONTAINED IN THE PRODUCT INFORMATION BULLETIN'S, SDS'S AND PRODUCT LABELS PRIOR TO STARTING ANY PROJECT. NOTHING CONTAINED IN ANY OF MVP COATINGS CORPORATION'S MATERIALS RELIEVES THE END USER OF THE OBLIGATION TO READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS FOR EACH OF MVP COATINGS CORPORATION'S PRODUCTS.



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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.

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