



URETHANE CEMENT SL 160™

100% SOLIDS URETHANE CEMENT

1/8" APPLICATION

DESCRIPTION

URETHANE CEMENT SL 160™ IS A THREE-PART URETHANE POLYMER CONCRETE SELF-LEVELING PRODUCT. IT IS A SELF-LEVELING SLURRY APPLIED AT 1/8" WITH EXCELLENT FLOW CHARACTERISTICS. IT IS DESIGNED TO WITHSTAND AGGRESSIVE CHEMICAL ATTACK, THERMAL SHOCK RESISTANCE OR AS AN UNDERLAYMENT PROVIDING SUPERIOR FUNCTIONAL FLOOR.

PRIMARY APPLICATIONS

- ✓ CHEMICAL PROCESSING
- ✓ FOOD PROCESSING AREAS
- ✓ RESTAURANTS
- ✓ PHARMACEUTICAL
- ✓ BAKERIES
- ✓ CAGE WASH AREAS
- ✓ BOTTLING AREAS
- ✓ SANITIZE/WASH AREA
- ✓ PLANT VEHICLE AISLES
- ✓ WAREHOUSES
- ✓ MECHANICAL ROOMS

ADVANTAGES

- ✓ WATER-BASED LOW EMISSION
- ✓ CONTAINS 20% PLANT BASED INGREDIENTS
- ✓ MEETS USDA, FDA AND CFIA STANDARDS
- ✓ SELF-PRIMING FOR EXCELLENT ADHESION
- ✓ SUPERIOR IMPACT RESISTANCE
- ✓ MEETS CALIFORNIA VOC AND SCAQMD REQUIREMENTS
- ✓ WIDE TEMPERATURE SERVICE RANGE FROM -50°F TO 200°F
- ✓ MINIMUM APPLICATION TEMPERATURE = 35°F AND ABOVE
- ✓ HIGH TOLERANCE TO MOISTURE VAPOR PRESSURE, UP TO 15 LBS
- ✓ GREEN CONCRETE APPLICABLE, 7 DAY OLD CONCRETE
- ✓ RESISTANCE TO GROWTH OF BACTERIA AND FUNGI

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TECHNICAL DATA

PACKAGING		COLOR (PRE-MIXED)			
A : B : C		GRAY	DARK GRAY	CHARCOAL	
RECOMMENED THICKNESS		TILE RED	BLUE	GREEN	CHESTNUT
38 SQFT/KIT @ 1/8” NEAT	60 SQFT/KIT @ 1/8” WITH BROADCAST	PRODUCT QUALITY AND STORAGE			
		<ul style="list-style-type: none">MUST BE STORED IN A DRY ENVIRONMENT BETWEEN 50° F - 90° F. DO NOT ALLOW PART A (RESIN AND PART B (HARDENER) TO FREEZE.PART A (RESIN) AND PART B (HARDENER) HAVE APPROXIMATELY 1-YEAR SHELF LIFE FROM THE DATE OF MANUFACTURE.PART C (AGGREGATE) HAS APPROXIMATELY SIX (6) MONTHS SHELF LIFE FROM THE DATE OF MANUFACTURE.MUST BE IN ORIGINAL, FACTORY SEALED CONTAINER.STORE DRUMS ON WOODEN PALLETS TO AVOID DIRECT CONTACT WITH GROUND.DO NOT OPEN UNTIL READY TO USE.			
MIX RATIO BY VOLUME					
3 COMPONENT KIT: 1 PART A = 8 LBS 1 PART B = 8 LBS 1 PART C = 25 LBS					
<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 @ 70°	WORK TIME @ 70°	VISCOSITY @ 70°			
15 - 20 MINUTES	15 MINUTES	PART A		PART B	
DRY TIME @ 70°	% SOLIDS BY WEIGHT	N/A		N/A	
6 - 8 HOURS	100%	VOC		RECOMMENDED THINNER	
		< 5 G/L		NONE	
<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)	FLEXURAL STRENGTH (ASTM C-580)
80D	2,030 PSI
TENSILE STRENGTH (ASTM D-412)	IMPACT RESISTANCE (ASTM D-2794)
973 PSI	> 160 IN/LB
COMPRESSIVE STRENGTH (ASTM D-579)	SHRINKAGE (ASTM C-531)
6,500 PSI	0.30%
ADHESION TO CONCRETE (ASTM D-7234)	WATER ABSORPTION (ASTM C-413)
> 400 PSI, CONCRETE FAILURE	< 0.01%



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FLAME SPREAD/NFPA 101 (ASTM E-648)	ABRASION RESISTANCE (ASTM D-4060)
CLASS 1	CS 17 WHEEL, 100-GRAM LOAD, 1000 CYCLES
COEFFICIENT OF FRICTION (ASTM D-2047)	70 MG LOSS
JAMES FRICTION TESTER	
.60, MEETS ADA	

SURFACE INSPECTION

CONCRETE MOISTURE CONDITION:

URETHANE CEMENT SL 160™ CAN WITHSTAND MOISTURE VAPOR PRESSURE UP TO 15 LBS/1,000 SQ FT/24 HOURS. IT IS THE RESPONSIBILITY OF THE OWNER OR THE OWNER'S REPRESENTATIVE TO EXAMINE THE SUBSTRATE FOR CONTAMINANTS, MOISTURE AND CONDITION OF THE CONCRETE SLAB. PLEASE CONTACT MVP COATINGS™, INC. TECHNICAL SERVICES TEAM FOR ADDITIONAL GUIDELINES

ALL SURFACE OVERLAYS SHOULD BE CAREFULLY INSPECTED FOR SURFACE STAINS, CONTAMINANTS, AND UNSOUND AREAS, SUCH AS SOFT OR DUSTING SURFACES AND DELAMINATIONS. SURFACE OVERLAYS SHOULD BE CAREFULLY CHECKED TO LOCATE WEAK MATERIAL OR DELAMINATED AREAS. ALL CRACKS SHOULD BE IDENTIFIED AND LABELED AS STRUCTURAL, MOVING, OR NON-MOVING TO DETERMINE A PROPER REPAIR METHOD. CONTROL, ISOLATION AND EXPANSION JOINTS SHOULD BE IDENTIFIED FOR REPAIRS AND SEALING. PRIOR TO COMMENCING WORK, THE ARCHITECT, ENGINEER, OWNER, AND/OR THE OWNER'S AGENT MUST BE NOTIFIED OF ANY PROJECT CONDITION CHANGES, DETRIMENTAL OR UNSATISFACTORY CONDITIONS THAT COULD EITHER DELAY THE COMPLETION OF THE PROJECT, INTERFERE WITH EXECUTION OF THE CONTRACT, OR RESULT IN A DEFECTIVE OR FAULTY INSTALLATION. WORK SHOULD NOT PROCEED UNTIL ALL CONDITIONS HAVE BEEN MET TO THE SATISFACTION OF ALL PARTIES WITH RESPECT TO ALL AGREED UPON CHANGES.

SURFACE PREPARATION

REMOVE ALL UNSOUND CONCRETE, TILES, WEAK GROUT, LAITANCE, EXISTING COATINGS, OVERLAYMENTS, MASTICS, ADHESIVES, CURING COMPOUNDS, UNSOUND JOINT MATERIALS AND ALL OTHER MATERIALS THAT MAY IMPEDE PROPER ADHESION OF THE POLYMER SYSTEM. BE SURE TO USE MECHANICAL AND ABRASIVE METHODS THAT DO NOT CREATE MICRO-CRACKING OF THE SUBSTRATE. ACID OR CAUSTIC ETCHING MAY BE REQUIRED ON SOME PROJECTS. WHEN ABRASIVE BLASTING IS NOT REQUIRED, ACID ETCHING AND CHEMICAL DETERGENT CLEANING IS OFTEN AN ACCEPTABLE METHOD. CONCRETE SUBSTRATE MUST BE NEUTRALIZED AFTER CHEMICAL CLEANING: CONTACT MVP COATINGS™, INC. FOR MORE INFORMATION. SURFACES EXPOSED TO OILS, GREASE OR FATTY ACIDS NEED TO BE CAREFULLY WASHED WITH A DETERGENT AND EMULSIFIER BEFORE ABRASIVE BLASTING. THE REQUIRED CONCRETE SURFACE PROFILE (CSP) ACHIEVED WITH MECHANICAL PREPARATION SHOULD BE PERFORMED IN ACCORDANCE WITH ICRI GUIDELINES.

CSP 3 CONCRETE SURFACE PROFILE ARE NEEDED FOR URETHANE CEMENT SL 160™ SELF-LEVELING APPLICATION.

CONTAMINATED CONCRETE

DETERGENT SCRUB AND RINSE WITH CLEAN WATER TO REMOVE SURFACE DIRT, OIL, GREASE AND ANY OTHER CONTAMINANTS.



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MATERIALS

URETHANE CEMENT SL 160™ SELF-LEVELING IS AVAILABLE AS A KIT
EACH KIT IS COMPRISED OF: PART A (RESIN), PART B (HARDENER) AND PART C (AGGREGATE).
URETHANE CEMENT SL 160™ SELF-LEVELING IS NOTCH SQUEEGEE APPLIED AT 1/8" FOLLOWED BY A LOOP ROLLER.

TOOLS: 1/2" V-NOTCH RUBBER SQUEEGEE OR 1/8" GAUGE/PIM RAKE AND LOOP ROLLER
SPREAD RATE: 60 SQFT/KIT @ 1/8", 38 SQFT/KIT @ 1/8" NEAT

MIXING

DO NOT MIX UNTIL READY FOR IMMEDIATE USE

GENERAL MIXING:

PROPER PLANNING OF MIXING AND APPLICATION WORK FLOW ARE ESSENTIAL ELEMENTS TO ACHIEVING A SEAMLESS AND AESTHETICALLY PLEASING FLOOR.

PLAN AHEAD BY LAYING OUT INSTALLATION INTO SECTIONS. ALLOW THE FULL WIDTH OF THE AREA TO BE COMPLETED IN 15 MINUTES OR LESS TO ENSURE NO PLACEMENT LINES ARE VISIBLE, AS COLD JOINT LINES WILL SHOW IN THE FINISHED FLOOR. EDGE DETAILS, SLOPING AND PROPER PITCHING ARE CRITICAL FOR PROPER FLOORING SYSTEM INSTALLATION. CRACK REPAIRS MUST ALSO BE ADDRESSED BEFORE INSTALLATION OF THE URETHANE CEMENT SL 160™.

BASIC MIXING:

1. POUR PART A (RESIN) INTO A 5 GALLON PAIL. MAKE SURE THE ENTIRE CONTENT OF PART A (RESIN) IS COMPLETELY DRAINED.
2. ADD PART B (HARDENER) TO PART A (RESIN).
3. MIX PART A (RESIN) AND PART B (HARDENER) TOGETHER USING A HIGH-SPEED DRILL (800 RPM) WITH A 5" JIFFLER TYPE BLADE FOR AT LEAST 30 SECONDS.
4. GRADUALLY ADD PART C (AGGREGATE) AND MIX CONTINUOUSLY FOR AT LEAST 2 MINUTES UNTIL A HOMOGENEOUS MIX IS ATTAINED. MOVE THE BLADE AROUND CONTINUOUSLY TO ENSURE THE MIXTURE IS COMPLETELY MIXED AND UNIFORM.

THOROUGH AND COMPLETE MIXTURE IS CRITICAL:

THE APPLICATION TOOL MUST BE KEPT AS CLEAN AS POSSIBLE TO AVOID EXCESSIVE BUILDUP OF OLD MATERIAL. UTILIZE NEW SQUEEGEES OR RAKES AS NECESSARY TO AVOID DISRUPTING THE APPLICATION WORK FLOW. USE NEW SQUEEGEES WHEN THE TIPS ARE WORN. AVOID DRIPPING SOLVENT INTO THE MATERIAL DURING APPLICATION. CHECK THE FLOOR FOR PROPER THICKNESS FREQUENTLY TO ENSURE YOUR TOOLS ARE STILL DELIVERING PROPER COATING THICKNESS.

ALLOW THE INSTALLED COATINGS TO FULLY CURE. A MINIMUM OF EIGHT (8) HOURS IS NEEDED FOR LIGHT FOOT TRAFFIC WHEN APPLIED AT 75°F OR ABOVE. A MINIMUM CURE TIME OF 24 HOURS MAY BE REQUIRED FOR TEMPERATURES BELOW 75°F. MATERIAL SHOULD NOT BE APPLIED AT TEMPERATURES BELOW 50°F. ADDITIONAL CURE TIME IS NEEDED FOR HEAVY TRAFFIC LOADS, SUCH AS FORKLIFTS AND HEAVY MACHINERY.



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LIMITATIONS

- DO NOT USE BROKEN, DAMAGED OR WET BAGS OF PART C (AGGREGATE).
- DO NOT SPLIT, SUBTRACT OR ADD TO THE KITS UNLESS THERE ARE INERT MATERIALS SUCH AS PEA GRAVEL OR SAND FOR EXTENDING PURPOSES.
- BLEACHING AND STAINING ARE POSSIBLE IN PIGMENTED SYSTEMS DUE TO CERTAIN CHEMICALS. (THIS WILL NOT AFFECT PERFORMANCE).
- THIS PRODUCT IS NOT UV STABLE. SUNLIGHT AND METAL HALIDE EXPOSURE WILL CAUSE YELLOWING. (THIS WILL NOT AFFECT THE PERFORMANCE).
- BATCH-TO-BATCH COLOR VARIATIONS MAY OCCUR. FOR BEST RESULTS, USE THE SAME LOT NUMBER TOGETHER FOR COLOR CONSISTENCY.
- DO NOT APPLY TO UN-REINFORCED SAND CEMENT SCREEDS, ASPHALT OR BITUMEN SUBSTRATES, GLAZED TILE OR NON-POROUS BRICK AND TILE, MAGNESITE, COPPER, ALUMINUM, POLYESTERS OR ELASTOMERIC MEMBRANES.
- OLD, DAMAGED, BAGS OF PART C (AGGREGATE) MAY AFFECT FLOW, LEVELING AND HEALING PROPERTIES.
- **CAUTION! DO NOT REMOVE ANY MATERIALS FROM ANY PRE-MEASURED KITS.**

CLEANING

CLEAN UP MIXING STATION, TOOLS AND APPLICATION EQUIPMENT IMMEDIATELY AFTER COMPLETION. USE SUITABLE SOLVENT AS SPECIFIED BY MVP COATINGS™, INC. TECHNICAL SERVICES TEAM OR IF PERMISSIBLE BY LAW, XYLENE, AS A GENERAL OVER-THE-COUNTER SOLVENT. OBSERVE ALL FIRE HAZARDS, LEGAL AND HEALTH AND SAFETY PRECAUTIONS WHEN HANDLING OR STORING SOLVENTS, PARTICULARLY IN CONFINED SPACES. MAKE SURE THE WORKING AREA IS WELL-VENTILATED AT ALL TIMES.

MAINTENANCE

OCCASIONALLY INSPECT THE INSTALLED FLOOR BY SPOT CLEANING AND SPOT REPAIRING ANY DAMAGED OR CRACKED AREAS TO PROLONG THE LIFE OF THE FLOORING SYSTEM. A DAILY CLEANING MAINTENANCE PROGRAM IS HIGHLY RECOMMENDED TO ENSURE THE FLOOR IS SAFE FOR ITS INTENDED PURPOSE.

SAFETY PRECAUTIONS

THE INSTALLATION CREW MUST HAVE PROPER PERSONAL PROTECTIVE EQUIPMENT (PPE) AT ALL TIMES BEFORE, DURING AND AFTER HANDLING ALL PRODUCTS. ALL PRODUCT SAFETY DATA SHEETS (SDS) MUST BE READ COMPLETELY AND THOROUGHLY PRIOR TO STARTING WORK.

FOLLOW AND OBSERVE ALL MANUFACTURER, LOCAL, STATE AND FEDERAL REGULATIONS AND SAFETY HAZARDS WARNINGS, PROCEDURES AND GUIDELINES. USE ONLY AS DIRECTED. FOR PROFESSIONAL USE ONLY. KEEP OUT OF THE REACH OF CHILDREN.

DISPOSE ALL EXCESS MATERIALS, PACKAGING, AND OTHER WASTE IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.



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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.

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.