



URETHANE CEMENT TC 195™

100% SOLIDS 3-PART HIGH-BUILD TOPCOAT

DESCRIPTION

URETHANE CEMENT TOPCOAT IS A THREE-PART URETHANE POLYMER CONCRETE HIGH-BUILD COATING. IT IS DESIGNED AS A THIN FILM ROLL APPLIED, CONCRETE RESURFACING CLASSIFIED, FOR CONCRETE PROTECTION FLOORING PRODUCT RANGING FROM 8 MILS TO 16 MILS THICKNESS. THIS PRODUCT IS EASILY APPLIED WITH FLAT TO 1/8" V-NOTCHED RUBBER SQUEEGEE, BRUSH, OR ROLLER DEPENDING ON THE DESIRED FILM BUILD AND SURFACE TEXTURE. IT IS AN ALL-PURPOSE PRODUCT HAVING VERSATILE END BENEFITS SUCH AS METAL PRIMER, CONCRETE SEALER, MID-COAT, TOPCOAT OR AGGREGATES SEAL COAT FOR PIGMENTED BROADCAST SYSTEMS. IT CAN ALSO BE USED FOR PATCHING, WALLS AND COVING WHEN MIXED WITH SUITABLE AGGREGATES.

PRIMARY APPLICATIONS

- ✓ FOOD AND BEVERAGE INDUSTRY
- ✓ COMMERCIAL KITCHENS
- ✓ CHEMICAL PROCESSING PLANTS
- ✓ PHARMACEUTICAL PLANTS
- ✓ WAREHOUSE
- ✓ WASH BAY
- ✓ WASTEWATER TREATMENT
- ✓ COOLERS
- ✓ CORRIDOR
- ✓ MECHANICAL ROOMS

ADVANTAGES

- ✓ WATER-BASED LOW EMISSION
- ✓ CONTAINS 20% PLANT BASED INGREDIENTS
- ✓ MEETS USDA, FDA AND CFIA STANDARDS
- ✓ SUPERIOR ADHESION TO VARIABLE SUBSTRATES
- ✓ EXCELLENT IMPACT RESISTANCE
- ✓ EXCELLENT CHEMICAL 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, MIN 2 COATS APPLIED
- ✓ GREEN CONCRETE APPLICABLE, 7 DAY OLD CONCRETE
- ✓ RESISTANCE TO GROWTH OF BACTERIA AND FUNGI



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TECHNICAL DATA

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PACKAGING		COLOR (PRE-MIXED)			
A RESIN : B HARDENER : C AGGREGATE		GRAY	DARK GRAY		CHARCOAL
		TILE RED	GREEN	BLUE	CHESTNUT
RECOMMENED COVERAGE RATE		PRODUCT QUALITY AND STORAGE			
AS PRIMER: 150 SQFT/KIT 8 MIL	COVE WET PRIME: 200 LIN FT/KIT	<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.			
COVE BASE: ADD 30 LBS SILICA/QUARTZ 30 LIN FT/KIT 6” COVE, 1” RADIUS	AS TOPCOAT: OVER SANDBROADCAST 75-95 SQFT/KIT				
MIX RATIO BY VOLUME					
3 COMPONENT KIT: 1 PART A = 5 LBS 1 PART B = 5 LBS 1 PART C = 5LBS					
<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	4,250 PSI
TENSILE STRENGTH (ASTM D-412)	IMPACT RESISTANCE (ASTM D-2794)
1,280 PSI	> 160 IN/LB
COMPRESSIVE STRENGTH (ASTM D-579)	SHRINKAGE (ASTM C-531)



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7,560 PSI	0.10%
ADHESION TO CONCRETE (ASTM D-7234)	WATER ABSORPTION (ASTM C-413)
> 400 PSI, CONCRETE FAILURE	< 0.01%

FLAME SPREAD/NFPA 101 (ASTM E-648)	ABRASION RESISTANCE (ASTM D-4060) CS 17 WHEEL, 100-GRAM LOAD, 1000 CYCLES
CLASS 1	80 MG LOSS
COEFFICIENT OF FRICTION (ASTM D-2047) JAMES FRICTION TESTER	
.60, MEETS ADA	

SURFACE INSPECTION

CONCRETE MOISTURE CONDITION:

URETHANE CEMENT TOPCOAT CAN WITHSTAND MOISTURE VAPOR PRESSURE UP TO 15 LBS/1,000 SQ FT/24 HOURS WITH A MIN OF 2 COATS APPLIED. 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 2 CONCRETE SURFACE PROFILE IS RECOMMENDED FOR STAND-ALONE URETHANE CEMENT TOPCOAT APPLICATION.



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CONTAMINATED CONCRETE

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

MATERIALS

URETHANE CEMENT TOPCOAT IS AVAILABLE AS A KIT.

EACH KIT IS COMPRISED OF: PART A (RESIN), PART B (HARDENER) AND PART C (AGGREGATE).

URETHANE CEMENT TOPCOAT IS A SMOOTH COAT APPLIED USING A 1/8" NOTCH SQUEEGEE AND A 3/8" HIGH QUALITY NON-SHED NAP ROLLER.

TOOLS: FLAT OR 1/8" V-NOTCH RUBBER SQUEEGEE, BRUSH, ROLLER

SPREAD RATE: 150 SQFT/KIT AS PRIMER; 75-95 SQFT/KIT AS TOPCOAT, 200 LINFT/KIT AS COVE WET PRIME

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 TOPCOAT.

BASIC MIXING:

1. POUR PART A (RESIN) INTO THE 2 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 3.5" 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



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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.

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.



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DISPOSAL

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

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.
