



MCTC-85

1K, 85% SOLIDS NO ODOR MOISTURE CURE URETHANE

MCTC-85 is the ideal top coat for metallic epoxy, flake flooring and other epoxy floors and countertops. It features a high 85% solids, low viscosity formula with excellent open time that results in a smooth, glossy surface with superior hardness, chemical resistance and UV stability. It is user-friendly, single component, low VOC and NO ODOR.

Specifications / Compliances • Dried coating is USDA accepted • Meets OTC, CARB, LADCO & SCAQMD VOC restrictions.



KEY FEATURES & TYPICAL BENEFITS

- No Odor formula with superior gloss and leveling over smooth coated floors.
- Can be applied directly over flake for a durable, no mix top coat.
- Superior chemical resistance and unmatched hardness provides protection other coatings can't offer.
- UV stability allows this to be used in areas saturated by the sun throughout the day.
- One component system, easier to use than many other traditional urethanes.
- VOC compliant for most areas in the United States and Canada.

Typical Properties & Technical Information

PROPERTY	VALUE
Solids/Active Content, Percentage by weight	85%
Pot Life	N/A
Dry Time - Tack Free	4 - 6 hours
Dry Time - Foot Traffic	10 - 18 hours
Dry Time - Heavy Traffic	24 - 36 hours
Re-Coat Time Window	6 - 16 hours
Application Temperature	50° F - 80° F
VOC (Volatile Organic Compound) Content	Less than 50 grams/Liter
Appearance - Dry	Clear and High Gloss

Information above is based on lab temperatures of 70° - 72°F at 50% RH. Using this product outside these conditions may affect the accuracy of the information above. Always test prior to use!

ALWAYS REFER TO SDS & READ FULL TECH DATA SHEET AND WARRANTY INFORMATION PRIOR TO USE.

**LOW VOC
PRODUCT**



SCAN HERE
FOR PRODUCT
INFORMATION

RECOMMENDED APPLICATIONS

- Laboratories
- Garages / Showrooms
- Kennels / Veterinary Clinics
- Auto Service Centers / Aircraft Hangars
- Maintenance / Chemical Rooms
- Epoxy and Chip System Floors
- Any other concrete surfaces where superior abrasion and chemical resistance are key.



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APPLICATION INSTRUCTIONS

MOISTURE TESTING: Concrete floors, especially those not poured over a proper vapor barrier (plastic), are subject to possible moisture vapor transmission which may result in bubbling and/or failure of high performance coatings. Basic moisture testing can be performed by placing a 4' x 4' sheet of plastic on the concrete surface and securely taping it down on all edges. If after 24 hours the concrete is still dry below the plastic, the surface should be ready to coat. If moisture is present, the coating applicator should perform calcium chloride and relative humidity probe testing to determine if excessive levels of vapor emissions are present before applying any coatings.

SURFACE PREPARATION: This Urethane is designed to be a CLEAR top coat only. If possible, recoat within the suggested recoat window of the previous coating. If recoating outside the suggested recoat window of the previous coating or beyond 24 hours, sand using a 60-120 grit sanding screen to ensure adequate adhesion between coats. Vacuum dust thoroughly, rinse with clean water and remove excess water with a wet/dry vacuum or floor scrubber. Allow surface to dry completely prior to application of coating. Where applicable and with adequate ventilation, wipe the surface with acetone and a microfiber dust mop. **CAUTION:** Acetone is extremely flammable! If using acetone follow all safety precautions, make sure no pilot lights, open flames, sources of static electricity, sparks or extreme heat sources are present. Use recommended personal protection for acetone.

Substrate, air and material temperatures must be no less than 50°F and not exceed 80°F. If applied outside these limits the coating may not achieve adequate film formation and may have excessive air entrapment, bubbles, blushing or hazing. Please note that higher substrate, air and material temperatures as well as excessive humidity may speed the cure rate of this product. Cooler temperatures and lower humidity may slow the cure rate of this product.

FOR PERSONAL PROTECTION USE GLOVES, GOGGLES, RESPIRATOR AND OTHER NECESSARY PPE. REFER TO SDS PRIOR TO USE!

CAUTION: Moisture cured urethane cures by absorbing moisture from the atmosphere and then hardening. If the container is open for any period of time or brushes or rollers are dipped in and out, then the contents are likely to cure and become solid. Partially filled containers are also likely to cure and become solid over a period of time. Pour out only what will be used up in the immediate time frame and reseal the original container each time after pouring product out. Left over material should be poured into air tight, metal cans that have little to no air space in them with the lid securely in place.

MIXING: Do not incorporate air while mixing. If necessary, mix slowly with a hand held stir stick or lightly box container back and forth only for 10 - 15 seconds. **DO NOT use power mixing equipment. DO NOT THIN!**

****This Urethane is designed to be a CLEAR top coat only. It is not recommended to incorporate color as it may have an adverse affect on the pot life, cure time, finish, etc.**

COVERAGE RATE:

Over Existing Coating : 300 - 350 ft² per gallon*

Over Media Broadcast Systems : 175 - 225 ft² per gallon*

*Coverage rates may vary depending upon surface porosity, texture, application method and prior coating application. Excessive build up should be avoided.

APPLICATION: OVER SMOOTH SURFACES: Using a brush and/or 1/4" mohair blend roller, dip and roll the mixed material from a roller pan. 18" rollers are recommended for any surface to speed up application time and reduce roller marks. Start by placing the wet roller at one corner of an approximate 4' x 4' square and roll the material at an angle to opposite corner applying no pressure to the roller. Spread the material across only that square and immediately back-roll to even out material and roller lines. Adjust the size of your square as needed based on the amount of material being applied with the roller. After finishing the square, move on to the next square using the same technique. While applying keep a wet edge to prevent roller marks. It is recommended to work in sections usually using control joints as dividers to ensure proper application results. It is suggested to discard any material left in the roller pan when coating is complete. Do not allow to puddle! Use a brush to remove excess coating in joints.

OVER CHIP SYSTEM SURFACES: Apply this material by pouring directly over flake and spreading evenly with a flat, flexible squeegee and backroll using a 3/8" nap, shed-free, phenolic core roller. Always fill the roller cover in a puddle before beginning to back roll. Apply evenly at a rate of 175 - 225 square feet per gallon, always keeping a wet edge. Do not allow to puddle. Use a bristle brush to remove excess coating in joints.

RECOATING: If possible, recoat within the suggested recoat window located on page 1. Apply additional coats in the same manner as the first coat. Note that higher substrate, air and material temperatures as well as excessive humidity may greatly reduce the acceptable recoat window of this product. When working in higher temperatures, always recoat as early in the recoat window as possible to avoid failure between coats. If recoating outside the suggested recoat window (see page 1) or beyond 24 hours, sand using a 60-120 grit sanding screen to ensure adequate adhesion between coats. Vacuum dust thoroughly, rinse with clean water and remove excess water with a wet/dry vacuum or floor scrubber. Allow surface to dry completely prior to application of coating. Where applicable and with adequate ventilation, wipe the surface with acetone and a microfiber dust mop. **CAUTION:** Acetone is extremely flammable! If using acetone follow all safety precautions, make sure no pilot lights, open flames, sources of static electricity, sparks or extreme heat sources are present. Use recommended personal protection for acetone.

PLEASE NOTE: Applying material outside the suggested parameters may result in product failure. It is always recommended to test the product in a small, inconspicuous area (on the same concrete substrate) for desired results prior to application. Coverage rates may vary for all coatings and substrates depending on porosity, density, texture, etc. When applying, adhere to suggested coverage rates. Applying too thin of a coating may cause inadequate film formation, limited performance expectations and/or undesirable finish. Applying too thick may result to bubbling, hazing, etc. **DO NOT USE ON BRICK.**

COF WARNING: OSHA and the American Disabilities Act (ADA) have now set enforceable standards for slip-resistance on pedestrian surfaces. The current coefficient of friction required by ADA is .6 on level surfaces and .8 on ramps. The manufacturer recommends the use of slip-resistant aggregate in all coatings or flooring systems that may be exposed to wet, oily or greasy conditions. It is the contractor and end users' responsibility to provide a flooring system that meets current safety standards. The manufacturer nor its sales agents will be responsible for injury incurred in a slip and fall accident.



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PRECAUTIONS AND LIMITATIONS

- Do not apply this product in extreme humidity. Work time and cure rate will be accelerated which may result in difficulty applying and less leveling.
- Do not apply this product on moist or damp concrete. Perform moisture tests prior to application.
- This product will not freeze during storage, however, allow temperatures to rise to 50°F prior to application.
- All HVAC ventilation ducts should be somehow blocked prior to application so solvent fumes are not distributed.
- If using indoor, use proper ventilation while applying and for hours after application to ensure fumes are removed.
- It is not recommended to apply product over carpet, tile, or other types of floor adhesives.
- This product performs best when applied as one or two medium-light coats, not one heavy coat.
- Please be aware that this product when cured may be slippery when wet. An anti-slip additive can be added to reduce slip hazards.
- All new concrete must be cured for at least 28 days prior to application.
- It is not recommended to thin product. Improper thinning may cause coating to delaminate in a short time frame and other performance issues.
- This product may darken the surface of many new and existing concrete slabs. Test prior to use.
- Physical properties listed on this technical data sheet are typical values not specifications.
- Solvent vapors are heavier than air and may travel along the ground or may be moved by ventilation and ignited by pilot lights, other flames, sparks, heaters, smoking, electric motors, static discharge, or other ignition source locations distant from material handling point.

CLEAN-UP: Use MEK or acetone. Dispose of containers in accordance with local, state and federal regulations.

PRODUCT REMOVAL: Dried, cured coating may be removed with a commercial stripper or by using a diamond grinding method, sandblasting method or similar mechanical action.

SHELF LIFE: Up to six months from manufacture date in its original, unopened container stored at room temperature. (Packaged with nitrogen blanket in container to promote stability.)

PACKAGING: Available in 1 gallon and 1 quart containers.

Always read all technical information, label and SDS prior to use. This information can be found online or by calling customer service at the number below.

Tooling Pros warrants our products to be of good quality, free of defects and will conform with our published specifications in force on the date of acceptance of the order. As the exclusive remedy for breach of this warranty, we will replace defective materials. Ninety days after Tooling Pros has shipped the products, all our warranty and other duties with respect to the quality of the materials delivered shall conclusively be presumed to have been satisfied, all liability therefore terminates, and no action for breach of any said duties may thereafter be commenced. No warranty is expressed or implied as to the length of life of this product, or merchantability or fitness. Liability, if any, is limited to the purchase price of the material. Under no circumstances will Tooling Pros be liable for a consequential damage to anyone in excess of the purchase price of the products.

Extended Technical Data

Gloss 60°	94
Elongation (ASTM D882-67)	4.9 - 7.0%
Flexibility, 1/8" Mandrel (ASTM D1737)	Pass
Tabor Abrasion mg loss (ASTM D4060)	16 - 19 mg loss
Hardness (7 days)	5H - 6H
Heat Resistance	300° F
Water Resistance	Excellent

Chemical Resistance

R - recommended (little to no visible damage)
 RC - recommended conditional (some effect, swelling or discoloration)
 C - conditional (wash within one hour of exposure to avoid effects)
 NR - not recommended (visible damage will occur)

Urine	R
Xylene	R
MEK	RC
Isopropyl Alcohol	R
Methanol	R
Gasoline	R
Diesel Fuel	R
Skydrol	R
Motor Oil	R
Transmission Fluid	R
Brake Fluid	R
Hydraulic Fluid	R
Water	R
Sugar / Water	R
Chlorinated Water	R
Clorox (10%) Water	R
Vinegar / Water 5%	R
Wine	R
Sodium Hydroxide 25%	R
Muriatic Acid 10%	R
Sulfuric Acid 10%	R
Nitric Acid 10%	NR
Phosphoric Acid 10%	R
Hydrochloric Acid 20%	R

Allow 7 - 14 days for product to fully cure to reach full abrasion and chemical resistance properties.