PROTHANE 1

ProThane 1 is a superior top coat for Metallic floors, flake floors and other epoxy floors and countertops. ProThane 1 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. ProThane 1 is user-friendly, single component, low VOC and NO ODOR

PRODUCT HIGHLIGHTS

- No Odor Formula.
- Can be applied directly over flake for a durable, no mix top coat.

Typical Properties & Technical Information

PROPERTY	VALUE
Solids/Active Content, Percentage by weight	85%
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 - Wet	Clear
Appearance - Dry	Clear and High Gloss

CHEMICAL RESISTANT · LOW VOC · LOW ODOR · EASY APPLICATION · INTERIOR · UV STABLE · GLOSS · SCRATCH & SCUFF RESISTANT

APPROXIMATE COVERAGE RATES

First Coat: 300 - 350 ft² per gallon
Second Coat: 300 - 350 ft² per gallon
*Coverage rates may vary depending upon surface porosity, texture, application method and prior sealer application. Excessive build up should be avoided.

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Packaging

ProThane 1 is available in 1 gallon and 1 quart containers

Instructions For Use

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 PREP: This product should be applied only to a primed or previously coated surface. Apply coating to a clean surface that is completely dry and free of oil, dirt, grime, wax, detergent or any incompatible paint or coating. An existing coating must be bonded, structurally sound and properly prepared prior to applying new product. A thorough sanding with 80 - 100 grit or other mechanical preparation is highly recommended to prepare the surface if applying over an existing coating. After existing coating is sanded and prepared, coating a test area is highly recommended to test adhesion prior to entire application. If applying direct to concrete surface must be deemed mechanically and structurally sound, thoroughly clean of debris and completely dry. Proper moisture testing should be performed prior to applying this product. It is recommended to prepare the surface by mechanical means such as shot blasting or diamond grinding with 30 grit or coarser diamonds to achieve a CSP-2 to CSP-3 profile. Vacuum concrete dust thoroughly and wipe the surface with acetone and a microfiber dust mop

Avoid applying coating in high humidity/moisture atmospheres. Substrate and air temperature must be no less than 40° 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. Note that in direct sunlight, substrate temperature can exceed 150° F which can cause extreme bubbling issues.

MIXING: Do not incorporate air while mixing. Mix slowly with a hand held stir stick only for 10 - 15 seconds if necessary. DO NOT use power mixing equipment. **MCU 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: First Coat: 300 - 350 ft* per gallon* Second Coat: 300 - 350 ft per gallon* *Coverage rates may vary depending upon surface porosity, texture, application method and prior sealer application. Excessive build up should be avoided.

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.

APPLICATION: OVER SMOOTH SURFACES: It is recommended to apply this coating over an exisiting epoxy or urethane using a 1/4" mohair blend shed-free, phenolic core roller. Apply evenly at a rate of 300 - 350 square feet per gallon, always keeping a wet edge. Back rolling as you go is the recommended method to achieve a uniform, roller mark free application. It is recommended to work in sections usually using control joints as dividers to ensure proper application results. Do not allow to puddle. Use a bristle brush to remove excess coating in joints. Puddling/over application may result in bubbling, hazing, lack of adhesion,etc. OVER Chip/Flake SYSTEM SURFACES: Apply Prothane 1 No Odor directly over flake evenly with a flat, flexible squeegee and backroll with a 3/8" nap, shed-free, phenolic core roller. 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. Do Not Thin!

FOR PERSONAL PROTECTION USE GLOVES, GOGGLES, AND RESPIRATORS.

SECOND COAT: If a second coat is necessary it should be applied between 6 - 12 hours of the first coat for optimum adhesion. If recoating after 18 hours, screen the entire surface with a 60 - 80 grit screen on a buffer, remove dust and re-apply a thin coat at the same rate as the first coat (an additional coat may be necessary to hide scratches from screening).

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, do not exceed 400 sq. ft. per gallon. Applying too thin of a coating may cause inadequate film formation or performance expectations may be limited. DO NOT USE ON BRICK.

Clean Up

Use MEK or acetone. Dispose of containers in accordance with local, state and federal regulations. PRODUCT REMOVAL: Dried, cured sealer may be removed with a commercial stripper or by using a diamond grinding method, sandblasting method or similar mechanical action.

Product Removal

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Precautions and Limitations

- This product will not freeze during storage, however, allow temperature 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.
- 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.
- 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 other coatings, carpet, tile, or other types of floor adhesives.
- This product performs best when applied as one or two light coats, not one heavy coat.
- Please be aware that this product when cured may be slippery when wet. An anti-slip additive, such as Surf-Grip, 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 sealer to delaminate in a short time frame.
- 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.
- Do not apply this product on moist or damp concrete. Perform moisture tests prior to application.
- 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.

Special Notes

Please consult Safety Data Sheets (SDS) and read warranty information prior to use. This information can be requested by contacting customer service at 844-599-2319.

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.