

PRODUCT DATA

CANTOL 322 TWO COMPONENT VOC COMPLIANT URETHANE

DESCRIPTION

CANTOL 322 TWO COMPONENT VOC COMPLIANT URETHANE is a two component polyester/aliphatic polyurethane coating that exhibits excellent characteristics for abrasion resistance, chemical resistance, flexibility, weathering, and UV stability. This product meets the VOC requirements for the newly enacted VOC laws of New York, Pennsylvania, New Jersey, and other states as an industrial maintenance coating.

FEATURES

- Urethane Durability
- High Gloss
- UV Stable
- Chemical Resistance
- Weather Resistant
- VOC Compliant
- Abrasion Resistant
- Superior Top Coat

DIRECTIONS

PRODUCT STORAGE:

- Store product in an area as to bring the material to normal room temperature before using.
- Continuous storage should be between 60 and 90 degrees F (15.5-32.2°C).

SURFACE PREPARATION:

- Surface preparation will vary according to the type of complete system to be applied.
- For a one or two coat thin build system (3-10 mils dry) we recommend either mechanical scarification or acid etching until a suitable profile is achieved.
- For a complete system build higher than 10 mils dry, we recommend a fine brush blast (shot blast). All dirt, oil, dust, foreign contaminants and laitance (fine particles on the surface of fresh concrete) must be removed to assure a trouble free bond to the substrate.
- A test should be made to determine that the concrete is dry below the plastic sheet, then the substrate is dry enough to start coating. The plastic sheet testing is also a good method to determine if any hydrostatic pressure problems exist that may later cause disbanding.

PRODUCT MIXING:

- This product is a two component product.
- Before using stir well.
- Avoid whipping air into the coating when stirring.

PRODUCT APPLICATION:

- The material can be applied by brush or roller.
- Maintain temperatures and relative humidity within the recommended ranges during the application and curing process.
- Properly prime the substrate.
- Too thick of an application may result in product failure.

RECOAT OR TOP COATING:

- Multiple coats of this product are acceptable.
- If you recoat this product, you must first be sure that all of the solvents have evaporated from the coating during the curing process.
- It is best to test the coating before recoating or topcoating. This can be done by pressing on the coating with your thumb to verify that no fingerprint impression is left. If no impression is created, then the recoat can be started.
- Always remember that colder temperatures will require more cure time for the product before recoating can commence.
- Before recoating or topcoating, check the coating to insure no contaminants exist such as an epoxy blush. If necessary, clean the surface prior to recoating with Cantol EF-90.
- When recoating this product with subsequent coats of the urethane, it is advisable to apply the recoat before 24 hours passes.
- Also, it is advisable to degloss the previous coat to insure a trouble free bond, if more than 24 hours has elapsed since the previous coat.

CLEANUP: Use ketone solvents such as methyl ethyl ketone.

FLOOR CLEANING: Caution! Some cleaners may affect the colour of the floor installed. For best results, use Cantol EF-90. If no ill effects are noted, you can continue to clean with the product and process tested.

RESTRICTIONS: Restrict the use of the floor to light traffic and non-harsh chemicals until the coating is fully cured (see technical data under full cure). It is best to let the floor remain dry for the full cure cycle (3-5 days).

APPLICATIONS

Recommended for auto service centers, warehouses, computer rooms, laboratories, aircraft hangers, cafeterias, exterior tanks, indoor or outdoor service and chemical exposures areas.

TECHNICAL DATA

Solids by weight: Mixed = 73% (colours); 64% (clear)

Solids by volume: Mixed = 70% (colours); 60% (clear)

Volatile Organic Content: VOC content is less than 2.8 pounds per gallon (mixed)

Standard Colours: Custom colours available white, off white, light gray, medium gray, tile red, beige, and clear

Recommended Film Thickness: 3-5 mils per coat wet thickness (yields 2-3 mils dry)

Coverage per gallon: (3.8 litres): 320 to 500 square feet @ 3-5 mils wet thickness (29.7-46.4 square meters)

Packaging information: 3 gallon kit = 2 gallons part A (weight varies by colour) and 1 gallon part B (8.5#) (weights and volumes approximate)

Mix ration: 2 parts A to 1 part B by volume (approximate)

The logo for Cantol, featuring the word "cantol" in a bold, lowercase, sans-serif font. The letters are white with a blue outline, set against a blue oval background with a white border.

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Shelf Life: 1 year in unopened containers

Finish Characteristics: High-gloss (>70 at 60 degrees @ Erichsen glossmeter)

Impact Resistance: Gardner Impact, direct & reverse = 160 in lb (passed)

Abrasion Resistance: Taber abrasor CS-17 calibrase wheel with 1000 gram total load and 500 cycles = 22.0 mg loss

Adhesion: 350 psi @ elcometer (concrete failure, no delamination)

Viscosity: Mixed = 200-600 cps (typical)

Shipping Classifications: Part A "FLAMMABLE LIQUID N.O.S., 3, UN1993, PGIII"
Part B "FLAMMABLE LIQUID N.O.S., 3, UN1993, PGIII"

Hardness: Shore D = 62

Flexibility: No cracks on a 1/8" (0.31cm) mandrel

Cure Schedule: (70°F) (21.1°C)

Pot Life – (1½ US gallon volume)	2-4 hours
Tack free (dry to touch)	3-5 hours
Recoat or topcoat	5-9 hours
Light foot traffic	14-24 hours
Full cure (heavy traffic)	3-5 days

APPLICATION TEMPERATURE:

45-90° F (7.2-32.2°C)

CHEMICAL RESISTANCE

REAGENT	RATING
Acetic Acid 5%	B
Xylene	D
MEK	A
Methyl Alcohol	B
Gasoline	D
10% Sodium Hydroxide	E
50% Sodium Hydroxide	D
10% Sulfuric	D
10% Hydrochloric Acid	C
20% Nitric Acid	B
Ethylene Glycol	D

Rating key: A – not recommended, B – 2 hour term splash spill, C – 8 hour term splash spill, D – 72 hour immersion, E – long term immersion.

NOTE: Extensive chemical resistance information is available through your Cantol sales representative.

PRIMER:

Use the recommended Cantol primer.

TOPCOAT:

None recommended. This product is the topcoat.

LIMITATIONS

- Colours or clarity for clear may be affected by high humidity, low temperatures, or chemical exposure.
- For best results use a high quality 3/8" (0.95cm) nap roller.
- Slab on grade requires moisture barrier.
- Substrate temperature must be 5°F (3°C) above dew point (temperature at which the air becomes saturated...or 100% humidity).
- All new concrete must be cured for at least 30 days.
- Light or bright colours (white, safety yellow, etc.) may require multiple coats or a suitable colour coordinated primer to achieve a satisfactory hide.
- Colours may vary from batch to batch, therefore, use only product from the same batch for an entire job.
- Tire contact may cause discolouration or staining.

PRECAUTIONS

Part A and Part B: **DANGER:** Harmful or fatal if swallowed. Contains petroleum distillates. If swallowed, do not induce vomiting. Call physician immediately. Vapour harmful. Use with adequate ventilation. Keep away from heat, sparks and open flame. Eye irritant. Wear goggles when using. In case of eye contact, flush eyes with plenty of water for at least 15 minutes. Seek prompt medical attention. Skin irritant. Avoid contact with skin. In case of contact, flush with soap and water. Can cause skin sensitization. Wash hands with soap and water. Wear impervious gloves. Ingestion can cause gastrointestinal irritation and corrosion to digestive tract. Inhalation: If overexposure occurs, remove to fresh air. Seek prompt medical attention. For industrial and institutional use only. **KEEP OUT OF THE REACH OF CHILDREN.** See Material Safety Data Sheet (MSDS) for more complete information.

GUARANTEE

Cantol guarantees its products, when used as directed, to do all it claims. Should the product fail to demonstrate our claims, the remaining material may be returned to us and no charge will be made.