PRODUCT DATA

CANTOL 820 OIL STOPPER EPOXY PRIMER

DESCRIPTION

CANTOL 820 OIL STOPPER is a two component solvent based epoxy coating that exhibits excellent characteristics for coating over petroleum based oil contaminated concrete. This product allows excellent substrate penetration which results in excellent adhesion and is an ideal primer for the oil contaminated concrete substrate.

FEATURES

- Stops Oil Contamination
- Superior Concrete Penetration
- Superior Adhesion
- Epoxy Durability
- Base Coat for Primers/Topcoats
- Helps Shield Against Coating Failure
- Easy Application
- Solvent Based

DIRECTIONS

PRODUCT STORAGE:

- Store product at normal room temperature.
- Continuous storage should be between 60 and 90° F (15.5-32.2°C).

SURFACE PREPARATION:

- Surface preparation will vary according to the type of complete system to be applied.
- Make certain that the substrate where the **CANTOL 820 OIL STOPPER** is to be applied is clean, sound and free of all laitance (fine particles on the surface of fresh concrete), dirt, dust, oil, grease, or foreign contaminants.
- Make certain that the floor is completely dry before application.
- It is often undesirable to shot blast a petroleum contaminated concrete surface unless the applicator is prepared to steam and solvent clean the area.
- Shot blasting tends to open oil filled pores that will be detrimental to the application process.
- The method of cleaning an oil soaked floor is best determined at the job location.
- However, solvent cleaning, steam cleaning, and water emulsion cleaners can all be considered. See your Cantol Representative for the best product.
- A test should be made to determine that the concrete is dry; this can be done by placing a 4'X4' plastic sheet on the substrate and taping down the edges. If after 24 hours, the substrate is still 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 disbonding.

PRODUCT MIXING:

- This product has a one to one mix ratio by volume- merely mix equal volumes such as 1 gallon(3.785 litres) of part A to 1 gallon (3.785 litres) of part B.
- After the two parts are combined, mix well with slow speed mixing equipment such as a jiffy mixer until streak free.
- Improper mixing may result in product failure.

PRODUCT APPLICATION:

- We recommend one coat of **CANTOL 820 OIL STOPPER** followed by one coat of CANTOL 144 EPOXY PRIMER and then two additional coats of CANTOL 321 TWO COMPONENT URETHANE in the same color as the CANTOL 144 EPOXY PRIMER.
- Due to the vastly varying contamination parameters, it is recommended that the applicator both check the adhesion of this product to the substrate as well as a thorough evaluation of the proposed intermediate and topcoat selections.
- Petroleum based oils have a tendency to migrate upward through newly placed coatings and could cause disbonding if all preceding coats are not inspected prior to topcoating.
- Clean all previous coatings as necessary.

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NOTE: THIS COATING SHOULD NOT BE USED UNTIL A REPRESENTATIVE SAMPLE PATCH HAS BEEN PLACED AND THOROUGHLY EVALUATED FOR SUITABILITY.

- Make certain that the floor temperature and air temperature is between 55 and 90° Fahrenheit (12.7 – 32.2°C).
- Preferably, the relative humidity should be below 90%.
- This product should be applied by roller or brush at five to eight mil thickness when wet.
- Too thick of an application may result in product failure.

RECOAT OR TOPCOATING:

- After applying the **CANTOL 820 OIL STOPPER** and the coating has cured sufficiently, the applicator can proceed with the CANTOL PRIMER and URETHANE, application.
- Allow sufficient time between all subsequent coatings; and remember, as temperatures become lower all products will require additional time to cure.
- Read the individual data sheets for each product before proceeding.
- If different topcoats are desired, contact your CANTOL representative for application details before proceeding.

CLEANUP:

Use xylol, toluene, paint thinner, mineral spirits.

FLOOR CLEANING:

Caution! Some cleaners may affect the color of the floor installed.

- For best results, use Cantol EF-90.
- Test each cleaner in a small area, utilizing your cleaning technique.
- 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.

APPLICATIONS

Recommended for petroleum oil contaminated substrates. However, this product is not intended for use over vegetable oil, animal fat or synthetic oil contaminated concrete. This product can withstand exposure to many common solvents and chemicals.

TECHNICAL DATA

Solids by weight: Mixed = 71.5%
Solids by volume: Mixed = 63%
Volatile organic content: Part A = 2.5 pounds per gallon (0.30 kg/litre)
Part B = 2.75 pounds per gallon (0.32 kg/litre)
Colors available: Black only
Recommended film thickness: 5-8 mils per coat (wet thickness); 3-5 mils dry
Coverage per gallon: 200-320 square feet (4.9-7.8 sq. meters/litre) @ 5-8 mils wet thickness
Packaging information: 2 gallon (7.57 litres) and 10 gallon kits (37.85litres) (volumes approx.), 2 gallon (7.57 litres) kit = 1 gallon (3.785 litres) part A (10.05#/gal) (1.2kg/litre) and 1 gallon (3.785 litres) part B (8.6#/gal) (1.03 kg/litre) (weights approximate)
Mix ratio: 1 part A to 1 part B by volume
Shelf life: 1 year
Abrasion resistance: Taber abraser CS-17 calibrase wheel with 1000 gram total load and 500 cycles = 37.0 mg loss
Flexibility: No cracks on a 1/8" (0.317cm)mandrel
Finish characteristics: Satin gloss (40-60 at 60 degrees @ Erichsen glossmeter)
Viscosity: Mixed = 150-300 cps (typical)

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DOT CLASSIFICATIONS: Part A “FLAMMABLE LIQUID N.O.S., 3, UN1993, PGIII”
Part B “FLAMMABLE LIQUID N.O.S., 3, UN1993, PGIII”

Impact resistance: Gardner Impact, direct= 50 in. lb (passed)

CURE SCHEDULE: (70°) (21.11°C)

Pot life – 2 gallon (7.57 Litres) volume2-4 Hours
Tack free (dry to touch).....2-4 Hours
Recoat or topcoat .....4-8 Hours
Light foot traffic .....16-24 Hours
Full cure (heavy traffic) ..... 2-7 Days

Application temperature: 55-90° F (12.77-32.22°C)

CHEMICAL RESISTANCE:

REAGENT	RATING
Acetic Acid 5%, 10%	A
Acetone	B
Ammonia	C
Brake Fluid	A
Ethylene Glycol	C
Ethyl Alcohol	B
Ethylene Glycol Monomethyl Ether	B
Gasoline	B
Hydrochloric Acid 10%	C
Hydrochloric Acid 36%	B
Methyl Ethyl Ketone (MEK)	A
Nitric Acid 20%	A
Nitric Acid 5%	B
Phosphoric Acid 40%	A
Skydrol	B
Sodium Hydroxide10%	E
Sodium Hydroxide 50%	D
Sulfuric Acid10%	C
Toluene	B
Water	E
Xylene	B

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.

PRIMER:

None required

TOPCOAT:

We recommend one (1) coat of CANTOL 144 EPOXY PRIMER followed by two (2) coats of CANTOL 321 TWO COMPONENT URETHANE in the same color as the primer. Many other products are suitable as topcoats. Consult your Cantol representative.

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LIMITATIONS:

* For best results use a high quality 3/8” (0.95 cm) 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 prior to application.
* Always apply a test patch of the entire system prior to using to determine the suitability and adhesion characteristics.

PRECAUTIONS

Part A and Part B: **DANGER:** Harmful or fatal if swallowed. Contains petroleum distillates. If swallowed, do not induce vomiting. Call physician immediately. Vapor harmful. Use with adequate ventilation. Flammable. 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. Do not induce vomiting. 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 is 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.