

PRODUCT DATA

CANTOL 100 LVP HI-SOLIDS PRIMER

DESCRIPTION

CANTOL 100 LVP HI-SOLIDS PRIMER is a two component 93% solids epoxy coloured coating designed for applications where a high solids primer is needed before applying high solids or 100% solids topcoats for build coats over concrete.

FEATURES

- Superior Penetration
- High Solids Coating
- High Compression Strength
- Superior Primer
- High Gloss
- Superior Adhesion
- Easy Application
- Low Odour

DIRECTIONS

PRODUCT STORAGE:

- Store product in an area so as to bring the material to normal room temperature before using.
- Continuous storage should be between 60 and 90 degree F (15.5-32.2°C).
- Low temperatures or great temperature fluctuations may cause crystallization.

SURFACE PREPARATION:

- The most suitable surface preparation would be a fine brush blast (shot blast) to remove all laitance (fine particles on the surface of fresh concrete) and provide a suitable profile.
- All dirt, foreign contaminants, oil, 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; 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

PRODUCT MIXING:

- This product has a mix ratio of 12# (5.4kg) part A to 4.05# (1.8kg) part B for standard Colours.
- Standard packages are in pre-measured kits and should be mixed as supplied in the kit.
- We highly recommend that the kits not be broken down unless suitable weighing equipment is available.
- After the two parts are co
- After mixing, transfer the mixed material to another pail (the transfer pail) and again remix. The material in the transfer pail is now ready to be applied on the primed substrate.
- Improper mixing may result in product failure.

PRIMING:

- This product is only intended as a high solids primer suitable for most substrates.
- However, if the surface is very porous, then a lower solids primer might be more suitable to reduce the possibility of air release problems occurring. Use CANTOL 015 WATER BASED PRIMER or CANTOL 144 EPOXY PRIMER.

PRODUCT APPLICATION:

- The mixed material can be applied by brush, roller, or spray.
- However, the material can also be applied by a suitable serrated squeegee and then back rolled as long as the appropriate thickness recommendations are maintained.
- Maintain temperatures and relative humidity within the recommended ranges during the application and curing process.
- If concrete conditions or over aggressive mixing causes air entrapment, then an air release roller tool should be used prior to the coating tacking off to remove the air entrapped in the coating.

RECOAT OR TOPCOATING:

- This product is not colour stable and a topcoat should be used. Many topcoats are suitable for placement over this coating including both urethanes and epoxies.
- When topcoating this product, you must first be sure that the coating has tacked off before topcoating can commence.
- Before topcoating, check the coating to verify no epoxy blushes were developed (a whitish, greasy film or deglossing).
- If a blush is present, it must be removed prior to topcoating. Cantol EF-90 cleaner can be used to remove any blush.
- Many epoxy coatings and urethanes are compatible for use as a topcoat for this product as well as multiple coats of this product as an intermediate build coat.

CLEANUP: Use xylol, paint thinner or mineral spirits.

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. (2-7 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: 93%

Solids by volume: 85%

Volatile organic content: Part A 0.14#/gallon (0.0167kg/litre), Part B= 2.1#/gallon (0.25kg/litre). Mixed = .79#/gallon0.094kg/litre

The Cantol logo features the word "cantol" in a bold, lowercase, blue sans-serif font. The letters are contained within a blue oval border that has a slight 3D effect, with a darker blue shadow on the right side.

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Standard Colours: Off white, light gray, medium gray, tile red, beige

Other Colours also available: Dark gray, charcoal gray, brown, tan, light blue, and green. Special Colours are available upon request

Recommended film thickness: 6-12 mils

Coverage per gallon (3.8 litres): 133-267 square feet per gallon (3.26-6.5 sq. meters/litre) @ 6-12 mils

Packaging information: 3 gallon kit (volume approximate) and 15 gallon kits (volume approximate)

Mix ratio: 1

Shelf life: 1 year in unopened containers

Finish characteristics: Gloss (60 at 60 degrees @ Erichsen glossmeter)

Abrasion resistance: Taber adrasor CS-17 calibrase wheel with 1000 gram total load and 500 cycles = 45 mg loss

Adhesion: 430 psi @ elcometer (concrete failure, no delamination)

Viscosity: Mixed = 500-800 cps (typical, most Colours)

DOT classifications: Part A "not regulated"
Part B "CORROSIVE LIQUID N.O.S., 8, UN1760, PG III"

Flexural strength: 9,300 psi @ ASTM D790- ½"x½" bars span 4"

Yield compressive strength: 7,100 psi @ ASTM D695 - ½"x½" bars

Tensile strength: 6,000 psi @ ASTM D638 - testing dimensions F = 2.25", W = 0.500", T = 0.125", D = 4.5" and rate = 0.2"/minute

Gardner variable impactor: 50 inch pounds direct - passed

Ultimate elongation: 7.5%

Hardness: Shore D= 80

CURE SCHEDULE: (70°)

pot life - 1 1/2 gallon volume. 40-55 minutes

tack free (dry to touch) 6-9 hours

recoat or topcoat..... 10-14 hours

light foot traffic 12-16 hours

full cure (heavy traffic)..... 2-7 days

APPLICATION TEMPERATURE:

60-90 degrees F with relative humidity below 85% for best results

CHEMICAL RESISTANCE:

REAGENT	RATING
xylene.....	C
1,1,1 trichloroethane.....	C
Methyl ethyl ketone.....	A
methanol.....	A
ethyl alcohol.....	B
skydrol.....	B
10% sodium hydroxide.....	C
50% sodium hydroxide.....	C
10% sulfuric acid.....	C
70% sulfuric acid.....	A
10% HC1 (aq).....	C
5% acetic acid.....	C

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 sales representative.

PRIMER:

None required unless substrate is very porous, then use CANTOL EPOXY PRIMER to eliminate air release defects.

TOPCOAT:

Recommend epoxy coatings or high builds. Topcoat with CANTOL 2 COMPONENT VOC COMPLIANT URETHANE for increase durability and performance.

LIMITATIONS:

- Colour stability or gloss may be affected by environmental conditions such as high humidity or chemical exposure.
- Colours may vary from batch to batch.
- This product is not UV colour stable and will yellow in the presence of sunlight; topcoat required.
- Substrate temperature must be 5°F (3°C) above dew point (temperature at which the air becomes saturated... or 100% humidity).
- For best results, apply a 1/4" nap roller.
- All new concrete must be cured for at least 30 days prior to application.
- Although a thinner or lower solids primer is generally unnecessary, some more porous substrates may benefit by the use of a lower solid primer, with this product as an intermediate coat.

PRECAUTIONS

Part A and Part B: **WARNING:** Causes irritation. Avoid contact with skin and eyes. In case of contact immediately flush eyes with large amounts of water for at least 15 minutes while lifting upper and lower lids. Get immediate medical assistance. Flush skin with water. Get medical attention if reddening or swelling occurs. Prolonged or repeated exposure may cause asthma and skin sensitization or other allergic responses. If ingested, do not induce vomiting. Drink large quantities of water. Get medical attention immediately. Inhalation: Remove to fresh air. Seek prompt medical attention. **KEEP OUT OF THE REACH OF CHILDREN.** Wear rubber gloves and eye protection. Wash thoroughly after handling. See Material Safety Data Sheet (MSDS) for more complete information. For industrial and institutional use only.

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.

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The logo for Cantol, featuring the word "Cantol" in a bold, blue, sans-serif font, enclosed within a blue oval border.