**PROFESSIONAL COATINGS**

**PRODUCT DESCRIPTION:**

V-THANE COATING is a two component (semi-gloss) aliphatic polyurethane sealer that exhibits excellent characteristics for abrasion resistance, chemical resistance, and flexibility, weathering and UV stability. This product is formulated for vertical applications up to 6 mils without sag. Two coats are recommended over a suitable primer for best appearance and wear. Apply to concrete, metal or wood..

**RECOMMENDED USAGE:**

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

**COLORS AVAILABLE:**

Available in white and special colors (special colors are on a limited basis due to the viscosity requirements). Check with your sales representative for color matching possibilities.

**CURE SCHEDULE: (70°F)**

Pot life (1 1/2 gallon volume) 2-4 hours

Tack free (dry to touch) 4-6 hours

Recoat or topcoat 5-9 hours

Full cure (heavy traffic) 3-5 days

**CHEMICAL RESISTANCE:**

**REAGENT RATING**

Acetic acid 5 C

Xylene D

mek B

Methyl alcohol B

gasoline D

10% sodium hydroxide E

50% sodium hydroxide D

10% sulfuric D

10% hydrochloric acid D

20% nitric acid C

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 sales representative.

**LIMITATIONS:**

1. High humidity, low temperatures or chemical exposure may affect colors.
2. For best results use a high quality epoxy roller cover.
3. Below grade applications requires moisture barrier.
4. Substrate temperature must be 50 F above dew point
5. All new concrete must be cured for at least 30 days.
6. Physical properties are typical values and not specifications.
7. Light or bright colors (white, safety yellow, etc.) may require multiple coats or a suitable color coordinated primer to achieve a satisfactory hide.
8. Colors may vary from batch to batch, use only product from the same batch for an entire job location.
9. See reverse side for application instructions.
10. See reverse side for limitations of our liability and warranty

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| **GENERAL PRODUCT DATA** | |
| **FEATURE** | **ADVANTAGE** |
| **SOLIDS BY WEIGHT** | 100% |
| **VOLATILE ORGANIC CONTENT** | Zero pounds per gallon |
| **COLORS AVAILABLE** | Gray (mixed) Part A is white and Part B is black |
| **RECOMMENDED THICKNESS** | Variable (between 1/2" and 1 1/2") |
| **COVERAGE PER GAL** | 1 gal yields @ 1/2" by 1” yields 30-35 linear feet |
| **PACKAGING (CUBIC FEET)** | 2 gal kit .24 (approximately)  \*2 gal kit = 10.85lbs/gal (.90-.95 gal net) part A and 11.3lbs/gal (.90-.95 gal net) part B (volumes and weights approximate) |
| **MIX RATIO** | 1 to 1 by volume (10.85lbs part A to 11.3lbs part B) |
| **FLEXURAL STRENGTH** | 1,600 (ASTM D-790) |
| **TENSILE STRENGTH** | 1,400 psi (ASTM D-412) |
| **ELONGATION AT BREAK** | 67% at 70ºF (ASTM D-412) |
| **IMPACT RESISTANCE** | Excellent |
| **ABRASION RESISTANCE** | 24.2mg loss with a 1000g total load at 1000 revolutions with a CS10 wheel |
| **FLEXIBILITY RANGE (TEMP)** | This product remains flexible from –40 to 200ºF |
| **PRODUCT TYPE** | Epoxy urethane hybrid |
| **SHORE HARDNESS** | Shore A = 65, Shore D = 25 |
| **ADHESION** | 350 psi (elcometer) – no delamination/concrete failure |
| **VISCOSITY** | Mixed = 850,000 to 1,350,000 cps (typical) |
| **DOT CLASSIFICATION** | Part A “Not regulated”  Part B “CORROSIVE LIQUID NOS, UN1760, PGIII” |

**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°F.

**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 applied to vertical surfaces we recommend mechanical scarification to achieve a suitable profile. All rust, dirt, oil, dust, foreign contaminants and laitance must be removed (rust converted with VSC RUST CONVERTER) to assure a trouble free bond to the substrate. Pre-patch and level surfaces to be coated with VSC Products for the most uniform surface.

**PRODUCT MIXING:**

This product has a two to one mix ratio by volume - merely mix two gallons of part A with 1 gallon of part B. After the two parts are combined, mix well with slow speed mixing equipment such as a prop mixer until the material is thoroughly mixed and streak free. Avoid whipping air into the coating. For metal surfaces, add VSC ZINC powder at the rate of 1 lb. per gallon to help prevent sub-coating rust formation.

**APPLICATION:**

Brush, roller, or spray (airless) can apply the mixed material. A 1/2 inch (or greater) nap roller is best for rough surfaces (eg. Block walls). Spraying may require extra safety precautions, therefore, read the MSDS before spraying. Maintain temperatures within the recommended ranges during the application and curing process. It is best to apply a liberal coat over VSC SEAM TAPE prior to coating the entire surface.

**RECOAT OR TOPCOATING:**

Multiple coats of this product are acceptable. If you opt to recoat this product, you must first be sure that all of the solvents have evaporated from the coating during the curing process. The information on the front side are reliable guidelines to follow. However, it is best to test the coating before recoating or topcoating. Pressing on the coating with your thumb to verify that no fingerprint impression is left can do this. 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. If a blush or contaminants are present on a previous coat, remove with a standard type detergent cleaner. 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.

**CLEANUP:**

Use ketone solvents (MEK).

**CLEANING:**

Caution! Some cleaners may affect the color. 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 area to light duty and non-harsh chemicals until the coating is fully cured (see technical data under full cure). It is best to let the area remain dry for the full cure cycle.

**MAINTENANCE:**

For optimal floor appearance and performance following installation, refer to VSC’s Floor Maintenance Instructions.

**CUSTOMER NOTE:**

For information on application situations not covered above, contact your VSC representative.