

DESCRIPTION

Two-component, polyester aliphatic urethane finish coating for high-performance flooring.

COLOR

Available in standard colors and clear in satin or full gloss. Special colors and gloss can be matched upon request.

PACKAGING

One and five gallon kits, premeasured for easy blending at jobsite.

FEATURES

- Resists tire marking under the heaviest of loads.
- Ideal for automotive dealerships, aircraft hangars, fire stations, heavy manufacturing, and chemical plants.
- Abrasion resistance is more than 3x better than standard epoxy flooring.
- Withstands 5 years immersion in Skydrol 500 hydraulic fluid with no staining or adverse effect.

USES

WearCOAT 100 has non-yellowing, non-chalking properties combined with excellent abrasion, chemical, solvent and good heat resistance properties. It provides excellent gloss retention and will continue to retain a high gloss through many years of service.

It is recommended as a high performance finish coat in the following areas:

- Chemical Process Industries
- Water and Waste Treatment
- Pulp and Paper Mills
- Industrial/Commercial Floors
- Automotive Dealerships
- Aircraft Hangars

In some cases it is self-priming, but it is generally used as a topcoat over WearCOAT 440, WearCOAT 460, WearCOAT 490, WearCOAT 1020, and WearCOAT 1080.

Physical Properties

Taber Abrasion: (ASTM D-4060)	19mg loss; 1000 cycles, CS-17, 1000gms.
Pencil Hardness: (ASTM D-2134)	2H
Flexibility: (ASTM D-5222)	Pass 1/8" mandrel bend
V.O.C.:	< 340 g/L
Reverse and Direct Impact: (ASTM D-2794)	160 in. lbs.

Technical Data

Volume Solids:	65%
Dry Film Thickness, Minimum:	4.0 mils per coat
Maximum:	6.0 mils per coat
Coverage @ 4 mils DFT:	Approximately 250 sq. ft. /gal. (may vary slightly with color)
Dry Time (70°F, 50% R.H.):	To Touch – 2-4 hrs. To Recoat – 4 hrs. minimum Mar Free – 12 hrs. Light Traffic – 24 hrs. Max. Hardness – 7 days
Pot Life @ 70°F, 50% R.H.:	2 hrs.
Primer:	WearCOAT 490, WearCOAT 440, WearCOAT 1020, or WearCOAT 1080
Min. Application Temp.:	25°F or within 10°F of dew point
Service Temp. Range:	-40°F to +250°F Dry
Method of Application:	Brush or Roller
Thinner:	CFI 711 Thinner
Cleanup Solvent:	CFI 704 or CFI 711
Shelf Life:	Part A (polyol): 2 years, if unopened Part B (hardner): 1 year, if unopened
Mix Ratio:	2 parts A to 1 part B by volume

***NOTE:** Although this coating composition is not a fire-retardant product, it will not support combustion and will self-extinguish when the source of fire is removed.

READ THE SAFETY DATA SHEET PRIOR TO USE.

CHEMICAL RESISTANCE

Hydrochloric Acid 5%	Excellent	Oxalic Acid 10%	Excellent
Hydrochloric Acid 10%	Excellent	Citric Acid 10%	Excellent
Sulphuric Acid 5%	Excellent	Lactic Acid 85%	Good
Sulphuric Acid 10%	Excellent	Oxalic Acid	Good
Sulphuric Acid 30%	Good	Oleic Acid	Excellent
Nitric Acid 5%	Excellent	Maleic Acid 10%	Excellent
Nitric Acid 10%	Excellent	Gasoline	Excellent
Phosphoric Acid 10%	Good	Toluene	Excellent
Phosphoric Acid 50%	Good	Xylene	Excellent
Caustic Soda 10%	Excellent	Methanol	Excellent
Caustic Soda 40%	Excellent	Ethanol	Excellent
Ammonia 5%	Fair	Ethylene Glycol	Excellent
Ammonia 10%	Fair	Ethyl Acetate	Excellent
Sodium Bicarbonate 10%	Excellent	Acetone	Excellent
Sodium Chloride Solution 5%	Excellent	Methyl Ethyl Ketone	Excellent
Sodium Chloride Solution 10%	Excellent	Methyl Isobutyl Ketone	Excellent
Ammonium Chlorate 30%	Excellent	Perchloroethylene	Excellent
Formic Acid 10%	Good	Tricresyl Phosphate	Excellent
Acetic Acid 10%	Good	Tricresyl Phosphate	Excellent
Methylene Chloride	Poor	Skydrol A500	Excellent
MIL-E-23699 Hydraulic Oil	Excellent	JP-4 Jet Fuel	Excellent

RATING SYSTEM – TESTS WERE RUN IN TOTAL IMMERSION AND FOLLOWING RATES GIVEN: **Excellent** – 3 months with no blistering or coating degradation. **Very Good** – 2 months with no blistering or coating degradation. **Good** – 1 month with no blistering or coating degradation. **Fair** – 1/2 month with no blistering or coating degradation. **Poor** – less than 1/2 month.

MIXING

Mix Part A for 2 to 3 minutes to assure full dispersion of pigment. Pour Component B (hardener) into Component A (resin). Stir at low speed to prevent air entrapment for 2 to 5 minutes (base mixing time on temperature and viscosity), using an “in-the-bucket” mixer, or jiffy mixer. Thorough mixing is required.

APPLICATION

Concrete should be dry and surface temperature should be at least 55°F. Pour mixed material directly on the surface in a long puddle and spread using either a flat or a notched rubber squeegee, depending on film thickness requirements.

IMPORTANT: *Do not scrape or drain mixing containers.*

An applicator wearing spiked shoes should then immediately back roll and cross roll the material with a quality “lint-free” 3/8” nap roller cover.

Finish application by “laying off” in one direction. Check film thickness frequently. In smaller areas, a “dip and roll” method of application is acceptable.

PRECAUTIONS

WARNING: FLAMMABLE

Contains Aliphatic Polyisocyanate Prepolymer Hexamethylene Diisocyanate. Use only with adequate ventilation.

Individuals with chronic respiratory problems or prior respiratory reactions to isocyanates must not be exposed to vapors or spray mist containing isocyanates.

If affected by inhalation, vapor or spray mist, remove to fresh air. If breathing difficulty persists or occurs later, consult a physician and have label information available.

Refer also to Safety Data Sheet.

WearCOAT 100 TDS Rev 0518

LIMITED WARRANTY: All statements, technical information and recommendations contained herein are based on tests the manufacturer believes to be reliable, but the accuracy or completeness thereof is not guaranteed, and the following is made in lieu of all warranties, express or implied: Seller's and manufacturer's only obligation shall be to replace such quantity of the product proved to be defective at the time the sealed container is first opened, and in no event beyond the published shelf life. Neither seller nor manufacturer shall

be liable for any injury, loss or damage, direct or consequential, arising out of the use of or the inability to use the product. At no point shall a claim of loss or damage resulting from use of the product exceed the purchase price allocable to the product giving rise to the claim. Before using, user shall determine the suitability of the product for his intended use, and user assumes all risk and liability whatsoever in connection therewith. All data, statements and recommendations made herein are based upon information manufacturer be-

lieves to be reliable, but are made without any representation or guarantee or warranty of accuracy, and are made with reservation of all patent rights. All products are sold on the condition that the user will evaluate them, as well as manufacturer's recommendation, to determine their suitability for user's own purpose before adoption. Statements regarding the use of the products or processes are not to be construed as recommendations for their use in violation of any patent rights or in violation of any applicable laws or regulations.