



## PRODUCT DATA WEARCOAT 805 SURFACER

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### Description

Three part, trowel applied, aggregate filled epoxy floor surfacer. A special formula WEARCOAT 805 is available for application to walls and vertical surfaces.

### Color

Gray, Natural.

### Packaging

Three premeasured components packaged in a (42 lb. gross unit) carton.

### Uses

WEARCOAT 805 Surfacer is an epoxy topping generally applied 1/4" thick to concrete surfaces. It is supplied as a three component, chemically cured system for interior or exterior use. The topping is fast curing and highly resistant to impact, wear and corrosion. It can be trowel applied to new or old concrete. It can also be applied to wood or steel.

WEARCOAT 805 Surfacer finds use wherever tough, abrasion resistant and corrosion resistant areas are needed such as plating, machine shops, chemical and petrochemical plants or in heavy traffic service such as warehouses, loading docks and ramps.

It can be troweled so as to provide skid resistant flooring for use in food handling and processing areas, breweries, dairies, laundries, pharmaceutical plants, etc., where spillage or liquid may cause slippery conditions.

### Surface Preparation

Apply to clean, dry surfaces. Remove all dirt and oil residues with a suitable cleaner. Old paint should be removed by chipping, sandblasting or grinding.

New Concrete - Concrete should have a minimum of 3000 PSI at the surface when tested with a Schmidt Hammer. The concrete should have a wood float finish and be sloped a minimum of 1/4" per foot so that water would drain completely.

All efflorescence and laitance should be removed by acid etching, sandblasting or grinding. Acid etching is usually fastest and easiest and can be done by using a mixture of 20% muriatic acid. Proper caution should be exercised and protective clothing, rubber gloves and goggles must be worn when working with the acid etching mixture.

The acid should be removed before it dries by flushing with water until the pH of the concrete is between 6 and 7. The floor must be completely dry.

### Technical Data

Coverage	16 Sq. ft. /42 lb. unit at 1/4"thick
Curing Time @ 75°F.:	
To light foot traffic	6 to 8 hours
Light Rolling traffic	12 to 14 hours
Heavy Rolling traffic	34 to 36 hours
Compressive Strength	12000 PSI
Packaging	3 component packaging
Unit gross Weight	42 lbs.
Minimum Application Temperature	50°F.
Pot Life @ 70°F	20 Minutes
Cleanup Solvent	CFI 704 Cleaner
Primer:	Wearcoat 805 Primer

**Old Concrete** - Dirt, grease or other contamination should be removed with suitable cleaners, areas of deteriorated concrete should be removed, and, if deeper than ¼" should be grouted back to original lines of concrete by using WEARCOAT 805 Surfacers and adding up to 50% by volume of ¼" pea gravel. Refer also to CFI Bulletin G-3 for additional application guidelines.

**Application**

Concrete should be dry and surface temperature should be at least 50°F. The concrete surface is then primed with WEARCOAT 805 Primer. Only prime an area that can be topped while primer is still tacky (generally 3 to 4 hours). If primer becomes hard before applying surface, the area must be reprimed.

WEARCOAT 805 Surfacers is applied while primer is still tacky and in a single ¼" thick coat by using ordinary concrete working tools such as screeds, steel finishing trowels, power tools, etc.

**Material Preparation:**

**Primer** - WEARCOAT 805 Primer is a two component epoxy for use in bonding epoxy topping to concrete and for bonding new concrete to old concrete. Primer should be prepared as follows:

1. Pour component B (hardener) into component A (resin). (The resin container has room to allow for hardener and stirring.)
2. Stir vigorously for at least 1 minute, preferably with a mechanical mixer.
3. Dump onto the floor and trowel to the desired thickness.

**Special Installation Instructions**

Expansion-contraction joints should be placed in the topping at 20 to 25 foot intervals. In addition, they should be placed at joints in the substrate and at piers, columns, etc. The joints should be ½" wide and the full depth of the topping and then

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filled with a suitable expansion material such as polysulfide or butyl rubber caulks. Where feathering to an existing concrete area is desired and where heavy wheeled-traffic load will be involved, a kerf should be cut in the concrete and the topping troweled into the cut (see Figure 1).

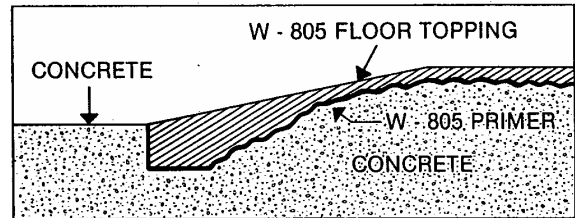


Figure 1

**CHEMICAL RESISTANCE:**

R=Recommended L=Limited Resistance U=Unsatisfactory

Inorganic Acids		Organic Compounds	
37% Hydrochloric	R	Cholorinted Solvents	L
35% Chromic	L	Lactic Acid	R
20% Nitric	R	100% Acetic Acid	U
35% Phosphoric	R	Oils	R
50% Sulfuric	L	Fatty Acids	R
		Alcohols	R
		Ketones	L
		Gasoline	R
		Benzol	R
		Toluol	R
<b>Alkalies &amp; Bleaches</b>			
20% Sodium Hydroxide	R		
Sulfur Dioxide	R		
Chlorine (Wet)	U		
Bleach	U		
Soda Ash	R		

**Precautions**

WEARCOAT 805 epoxy resin and hardener mixes contain material which may cause dermatitis and sensitization. Avoid contact with skin, eyes, and clothing. Avoid prolonged or repeated breathing of vapors. In case of contact with skin or eyes, flush with water for fifteen minutes. For eyes, get prompt medical attention. Use in well ventilated area. The use of plastic or rubber gloves when using this material is recommended.

Refer also to material safety data sheets for additional safety and disposal information.

