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TCB-IV TOP COAT

Pigmented Chemically Resistant Epoxy System for Coatings and Secondary Containment

DESCRIPTION: Premium quality, 100% solids epoxy coatings system specially designed as an industrial self-leveling coating. Contains no solvents (zero VOC) and has minimal odor to assure low toxicity and ease of application. CarbonWrap™ TCB-IV Top Coat also has excellent self-leveling ability and has great bonding ability to new or old concrete. It has excellent chemical resistance and is ideal for secondary containment areas or in areas of high concentrations of chemicals.

SUGGESTED USES:

- ◆ Moisture tolerant concrete primer
- ◆ Chemical resistant flooring and topcoat
- ◆ Self-leveling slurry
- ◆ Containment coatings

TECHNICAL DATA:

Solids by Volume	100%
Volatile Organic Content (VOC)	0 lbs/gal
Mixing Ratio	2:1 by volume
Viscosity	Low
Pot Life	25-30 min @77degrees
Application Temperature	55 degrees F minimum, 100 degrees F max
Maximum Re-coat Time	@ 77 24 hours
Dry To Touch @ 77°F	@77 2-3 hours
Full Cure @ 77°F	7 Days

The information contained herein is offered without charge for use by technically qualified personnel at their discretion and risk. All statements, technical information and recommendations contained herein are based on test and data which we believe to be reliable, but the accuracy or completeness thereof is not guaranteed and no warranty of any kind is made with respect thereto. Always read, understand, and comply with the hazard warnings described in the products' Material Safety Data Sheet(s) before use.

Complies with ACI Standard 503.1 - 4 and ASTM C-881-90 Type I, II, IV, V, VI and VII. Grade 1, Class B,C,D,E and F. Cures in presence of moisture and humidity. Resin non-crystallizing.

HOW SUPPLIED: 3-Gallon, 15-Gallon and 165-Gallon kits, FOBTucson, Arizona.

PHYSICAL PROPERTIES OF CURED SYSTEM (cured 7 days at 77° F):

Compressive Strength (psi) ASTM D695	10,000 - 11,000
Flexural Strength (psi) ASTM D790	13,000 - 13,800
Tensile Strength (psi) ASTM D638	7,000- 8,000
Tensile Elongation (%) ASTM D638	5.0
HDT (F) ASTM D648-264	132
Bond Strength (psi) to concrete	>400, w/ 100% concrete failure
Water Absorption (% gain) 24 hrs	< 1
Shore D Hardness	81

DIRECTIONS FOR USE:

Follow general surface preparation and application procedures specified in ACI 503.1-4.

CONDITIONS TO AVOID:

Do not apply to concrete less than 30 days old.

Do not apply to concrete with curing or sealing membranes.

Do not apply to base concrete at a temperature less than 50° F.

SURFACE PREPARATION:

Concrete surfaces must be structurally sound and free from contaminants such as dust, oil or dirt. Surfaces must be shot blasted or mechanically abraded to achieve a minimum 5-mil profile. Coated surfaces must be mechanically cleaned and abraded with 60-80-mesh sandpaper and approved by the manufacturer before coating. A calcium chloride "dome" test is recommended and hydrostatic pressure must be <5psi before epoxy coatings application. Free-standing water must be removed.

MIXING:

Thorough and complete mixing is critical, a Jiffy mixer is recommended. First mix each component separately. Proportion each component at the ratio of 2 parts A (resin) to 1 part B (hardener) by volume or, if using 1-gallon kits, pour all of Part B (hardener) into Part A (resin) and mix at 400-600 RPM for 3-5 minutes. In case of pigmented material, no stripes or color variation should be visible. Use an up and down motion, scraping the mixing container sides and bottom. Mix no more material than may be applied in 20 minutes.

COATINGS THICKNESS:

A minimum of 15 mils should be applied for best results. Aggregate may be broadcast for additional thickness or slip-resistant quality in coating. Back rolling with a spiked roller will help eliminate any surface defects.

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**TCB-IV TOP COAT CHEMICAL RESISTANCE GUIDE
(3 WEEK IMMERSION)**

<u>Reagent</u>	<u>% weight gain (loss)</u>
Xylene	0.1
Toluene	2.3
1,1,1 Trichloroethane	0.1
MEK	2.3
EB (Ethylene Glycol Monobutyl Ether)	2.4
Ethyl Alcohol	6.9
Water (deionized)	1.2
5% Detergent Solution	0.0
10% Sodium Hydroxide	0.1
50% Sodium Hydroxide	(0.2)
10% Sulfuric Acid	0.01
70% Sulfuric Acid	0.2
10% Hydrochloric Acid	0.1
5% Acetic Acid	2.6
10% Acetic Acid	5.4
Skydrol	(0.03)
Synthetic Gasohol	0.01

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