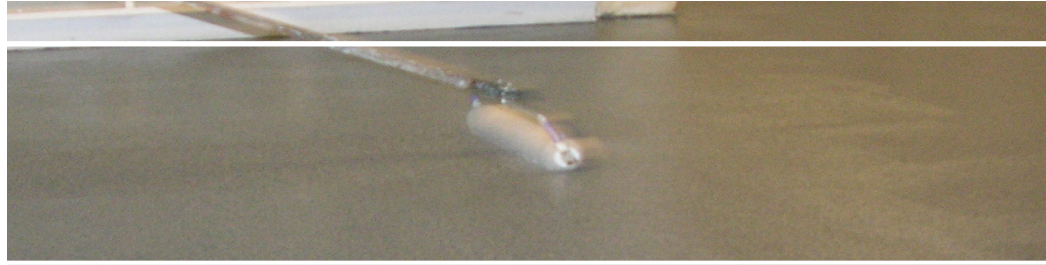


PRODUCT SPECIFICATIONS

BULLDOG EPOXY



FAST CURE EPOXY CHIP BASE

GENERAL PRODUCT DESCRIPTION

Fast Cure Chip Base is a two component, deep penetrating epoxy primer which provides an excellent bond coat between the concrete substrate and other high performance coating systems. Its epoxy chemistry provides excellent bonding characteristics and its low viscosity allows for deep penetration into a concrete substrate. Because of the porous nature of concrete, Fast Cure Chip Base reduces problems associated with out gassing with many coating systems. Fast Cure Chip Base is typically applied at 200 S/F per gallon. Its design features provide for the highest industrial demands.

Advantages:

- Low odor
- VOC Compliant - 49 g/l VOC
- Chemical resistant
- Able to be applied over damp concrete

PHYSICAL PROPERTIES

PROPERTY	VALUE	REFERENCE
Compressive Strength	18,400 psi	ASTM C 579
Flexural Strength	9,110 psi	ASTM D 790
Tensile Strength	5,190 psi	ASTM D 638
Bond to Concrete	350 psi concrete fails at this point	ASTM D 4541
Taber Abrasion	67 mgs	ASTM D 4060 CS 17 Wheels
Coefficient of Friction	0.6 minimum	ASTM D 2047
Flammability	Self-extinguishing	ASTM D 635
Hardness, Shore D	84	ASTM D 2240

PRODUCT DATA

Volumetric Ratio:	2 to 1
Solids:	95%
V.O.C.	< 50 g/l - 0.4 lb. / gal.
Coverage:	200-250 S/F per gal.
Application Temperature:	65-90°F and 5° above the dew point
Thinning:	Not required
Pot Life:	15-20 minutes
Working time on floor:	20-30 minutes
Cure Time:	1.5-2 hours (walking) 24 hours (traffic)
Critical recoat time:	24 hours
Shelf life:	12 months
USDA Food and Beverage:	Meets requirements

PACKAGING

Epoxy Primer is available in two different kit sizes:

	<u>Part A</u>	<u>Part B</u>
3 Gallon Kit	2 gal.	1 gal.
1.5 Gallon Kit	1 gal.	0.5 gal.

CONCRETE PREPARATION

Before the coating is applied, the concrete must be:
Clean-- Contaminants removed
Profiled-- Surface etched
Sound--Cracks repaired

Mechanical preparation is the preferred method of preparing concrete for coating application. Shot-blasting, diamond grinding, scarifying, and scabbling are all acceptable methods. The concrete profile should be approximately 40-60 grit sandpaper after preparation.

MIXING

The ratio of Fast Cure Chip Base is 2 to 1. That is, two parts of A (resin), to one part of B (hardener). Generally, three mixed gallons is ideal for application. Mix the following with a drill and jiffle mixer.

1. Pre-mix part A to insure uniform color. If using the 3-gallon kit, simply add the part B into the Part A pail and mix since the Part A comes in a three and a half gallon bucket. Use a clean mixing bucket if using the 1.5 gallon kit.
2. Add the part B to the A and mix for 60-90 seconds.
3. Immediately apply to the floor. Fast Cure Chip Base in mass has a short pot life of approximately 15-20 minutes. Once poured out on the floor, 20-30 minutes of working time can generally be expected.

APPLICATION PROCESS

Fast Cure Chip Base is applied in one coat. For estimation purposes, use 200 to 250 S/F as a coverage rate. (Note: For concrete that has been excessively prepared, a much lower coverage rate can be expected. Testing may be required to determine coverage.)

1. Always apply in descending temperatures. Concrete is porous and traps air. In ascending temperatures (generally mornings), the air expands and can cause out gassing in the coating. It is safer to apply coatings in the late afternoon, especially for exterior applications. Optimum ambient temperature should be between 65-90°F during application.
2. Mix three gallons of resin using above mixing instructions.
3. Apply approximately 200 to 250 S/F per gallon by immediately pouring out on surface in a ribbon, while walking and pouring at the same time until bucket is empty.
4. Using a window squeegee on a pole, pull Chip Base over substrate. Pull resin as thin as possible while still wetting out concrete and uniformly covering surface. This allows trapped air to escape more easily.
5. Using a 3/8" non-shedding phenolic (plastic) core paint roller, roll coating forwards and backwards. Immediately backroll in the direction perpendicular to first
6. Broadcast paint chips. Dry time for scraping is about 1.5-2 hours for regular and about 2-3 hours for the summer blend.

FAST CURE EPOXY CHIP BASE

CLEANUP

Fast Cure Chip Base, while in an unreacted state, may be cleaned up with water and degreaser. Isopropyl alcohol, or acetone may be needed once the resin begins hardening.

WARRANTY

Onyx Concrete Coatings products are warranted for one year after date of manufacture. Please refer to the Onyx Concrete Coatings Limited Material Warranty for addition clarification.

PRODUCT LIMITATIONS

Ground level concrete slabs emit moisture vapor. The allowable moisture emissions for concrete is 3 lbs. / 1000 S/F over a twenty-four hour period. If moisture is above this level, then blistering and delamination of coating may occur. A calcium chloride test should be performed to determine concrete moisture level. If moisture levels exceed the 3 lb. limit, a concrete moisture vapor control system should be used first before applying coating system. Please contact Onyx technical department for approved systems.

SAFETY

Consult Fast Cure Chip Base material safety data sheet. Avoid contact with eyes and skin. Some individuals may be allergic to epoxy resin. Protective gloves and clothing are recommended. This product contains combustable solvent. All sources of ignition removed and all electrical equipment should be grounded in accordance to the National Guard Code during application.



Information expressed in this data sheet is correct to the best of our knowledge. The technical data sheet does not constitute a warranty, expressed or implied as to the performance of this product. The use and application of this product is beyond our control. Warranty and liability therefore is limited to the replacement only for defective materials. Technical information is subjected to change without cause.