



ANCHOR BOND® 2500 EPOXY

PRODUCT DESCRIPTION:

Anchor Bond® 2500 Epoxy is a three-component, troweled, epoxy mortar system. The system consists of an Epoxy resin, amine curing agent and selected, graded aggregates blended with inorganic pigments. It cures to an extremely hard, impact resistant mortar which exhibits excellent abrasion, wear and chemical resistance.

RECOMMENDED FOR:

- ▶ Protective overlay on new floors
- ▶ Repair and restore old, worn surfaces
- ▶ Traffic aisles
- ▶ Production, packaging and machine areas
- ▶ Chemical processing areas

SUBSTRATE:

Anchor Bond® 2500 Epoxy, with the appropriate primer, is suitable for application over concrete, wood, brick, quarry tile and metal. Not recommended for use on asphalt, mastic, gypsum based products or painted surfaces. These must first be removed by mechanical means to expose the substrate prior to priming and overlayment.

SOLIDS BY WEIGHT:

100% (+ / - 1%)

COLORS AVAILABLE:

Gray, red and black. Other colors available upon request.

FINISH CHARACTERISTICS:

Gloss

MIX RATIO:

66 oz. Part A / 11 oz. Part B / 1 Part C (34#)

RECOMMENDED THICKNESS / YIELD:

20.58 sq. ft./batch @ ¼" thickness

PACKAGING INFORMATION:

5 batch kits
10 batch kits

STORAGE CONDITIONS:

Store all components in a dry area, in temperatures between 60° – 85° F. Avoid excessive heat and do not freeze.

SHELF LIFE:

Three (3) years in original, unopened containers.

PHYSICAL PROPERTIES

PROPERTIES	TEST METHOD	ANCHOR BOND® 2500 EPOXY
COMPRESSIVE STRENGTH	ASTM C-579	10,000 psi
FLEXURAL STRENGTH	ASTM C-580	4,000 psi
TENSILE STRENGTH	ASTM C-307	1,750 psi
FLEXURAL MODULUS OF ELASTICITY	ASTM C-580	2.0 x 10 ⁶ psi
COEFFICIENT OF THERMAL EXPANSION	ASTM C-531	1.5x 10 ⁻⁵ in. / in. °C
WATER ABSORPTION	ASTM C-413	0.2%
IMPACT RESISTANCE	ASTM D-2794	> 160 in. / lbs.
HARDNESS	ASTM D-2240	85 – 90 Shore D
HEAT DEFLECTION TEMP	150.0 deg. F @ ASTM D648, ½" X ½" bar, span 4	

CURE SCHEDULE:

Light foot traffic	8 hours @ 70°F
Moderate wheeled loads	24 hours @ 70°F
Spillages & heavy traffic	48 hours @ 70°F
Strong chemical spillages	72 hours @ 70°F

PRIMER:

Anchor Bond® 100% Solids Epoxy Primer.

TOPCOAT:

Depending on requirements of environment
Anchor Bond® H.S. Topcoat (Pigmented)
Anchor Bond® Anchor Thane® Topcoat

SYSTEM OPTIONS:

Cove Base

To provide for an integral seal at the joint between the floor and the wall. Cove bases in heights from 2" to 6" / 5 cm to 15 cm may be specified.

TEXTURES:

Additional textures can be achieved to allow for more aggressive slip resistance. Available upon request.

ANCHOR BOND® 2500 EPOXY MIXING AND APPLICATION INSTRUCTIONS

1) PRODUCT 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. Low temperatures or great temperature fluctuations may cause product crystallization.

2) SURFACE PREPARATION:

The most suitable surface preparation would be a fine brush blast (shot blast) to remove all laitance and provide a suitable profile. All dirt, foreign contaminants, oil and laitance must be removed to assure a trouble free bond to the substrate. A test should be made to determine that the concrete is dry; this can be done by placing a 4'x4' plastic sheet on the substrate and taping down the edges. If after 24 hours, the substrate is still dry below the plastic sheet, then the substrate is dry enough to start coating. The plastic sheet testing is also a good method to determine if any hydrostatic pressure problems exist that may later cause disbonding.

3) PRIMING

Anchor Bond® 2500 Epoxy must be applied to the prepared floor surface before installing Anchor Bond® 2500 Mortar. Use of Anchor Bond® 100% Solids Epoxy Primer endures a secure bond to the substrate, prevents draining of liquids from the Anchor Bond® 2500 Mortar and makes application of the overlayment easier.

4) PRODUCT MIXING

- Measure 66 liquid oz. Anchor Bond® Slurry Broadcast Resin (Part A)
- Measure 11 liquid oz. Anchor Bond® Slurry Broadcast Hardener (Part B)
Pour pre-measured Part A and Part B liquids into a Mortar mixer and allow to mix for one minute. While Mortar mixer is turning, pour entire contents of 1 (34#) bag of Anchor Bond® 2500 Aggregate into the Mortar mixer. Allow to mix until all aggregate is fully wet in appearance.

5) PRODUCT APPLICATION

- While the Anchor Bond® 100% Solids Epoxy Primer is still wet, a Screed Applicator is used to apply the mixed Anchor Bond® 2500 Mortar to the floor. Material should be screed at a rate of 5/16" / 8 mm. to allow for ¼" / 6 mm. thickness after material has been compacted and trowel finished.
- After Screeding the Anchor Bond® 2500 Mortar, steel finishing trowels are used to compact and smooth the surface of the material. Use enough pressure to compact the Anchor Bond® 2500 Mortar to the required ¼" / 6 mm. thickness. Then, holding the trowel at a slightly lower angle, smooth out any trowel marks. If the mortar "pulls" creating a rough or open surface, either the trowel has become sticky or it is being held at the wrong angle. Keep the trowel clean by frequently cleaning it with scouring pads and warm, soapy water, remembering to wipe it dry before use again. The finished surface should be level, free of trowel marks and tightly closed to prevent a porous topping.
- In large, open areas, a power trowel is used to compact and smooth the surface of the material.

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- The mixing, screeding, troweling procedure is repeated as needed until the entire area has been covered. Coverage and thickness can usually be judged by the eye but DO check the actual thickness at frequent intervals during the entire installation.

- Where Anchor Bond® 2500 Epoxy does not abut a vertical surface, trowel the product into a chase (groove) cut into the concrete.

- If applying a cove, the cove should be troweled along with the floor to provide a seamless transition. The same Anchor Bond® 2500 Epoxy material is used for the cove base and the floor.

7) CLEANUP:

Use xylol

8) FLOOR CLEANING:

Caution! Some cleaners may affect the color of the floor installed. 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.

9) RESTRICTIONS:

Restrict the use of the floor to light traffic and non-harsh chemicals until the coating is fully cured (see technical data under full cure). It is best to let the floor remain dry for the full cure cycle.

NOTICE TO BUYER: DISCLAIMER OF WARRANTIES AND LIMITATIONS ON OUR LIABILITY

We warrant that our product is manufactured to the specifications as stated here or in other publications. All other information supplied by us is accurate to the best of our knowledge. Such information supplied about our products is not a representation or a warranty. It is supplied on the condition that you shall make your own tests to determine the suitability of our product for your particular purpose. NO WARRANTY IS MADE, EXPRESSED OR IMPLIED, REGARDING SUCH OTHER INFORMATION, THE DATA ON WHICH IT IS BASED, OR THE RESULTS YOU WILL OBTAIN FROM ITS USE. NO WARRANTY IS MADE, EXPRESSED OR IMPLIED, THAT OUR PRODUCT SHALL BE MERCHANTABILITY OR THAT OUR PRODUCT SHALL BE FIT FOR ANY PARTICULAR PURPOSE. NO WARRANTY IS MADE THAT THE USE OF SUCH INFORMATION OR OUR PRODUCT WILL NOT INFRINGE UPON ANY PATENT. We shall have no liability for incidental or consequential damages, direct or indirect. Our liability is limited to the net selling price of our product or the replacement of our product, at our option. Acceptance of delivery of our product means that you have accepted the terms of this warranty whether or not purchase orders or other documents state terms that vary from this warranty. No representative is authorized to make any representation or warranty or assume any other liability on our behalf with any sale of our products. Uncured epoxy resins, polymers and their curing agents may be ALKALINE, TOXIC OR BOTH, DEPENDING ON THE PARTICULAR SYSTEM. THEY MAY CAUSE ALLERGIC REACTIONS OR HYPERSENSITIVITY REACTIONS. BEFORE USING ANY MATERIAL, READ THE MATERIAL SAFETY DATA SHEET AND FOLLOW ALL PRECAUTIONS TO PREVENT BODILY HARM.