ANCHOR BOND® NOVOLAC EPOXY

PRODUCT DESCRIPTION:
Anchor Bond® Novolac Epoxy is a three component 100% solids epoxy mortar designed for applications where splash and spills of acids and chemicals occur.

RECOMMENDED FOR:
- Traffic areas
- Chemical troughs
- Curbs
- Tanks and chemical spill areas

SUBSTRATE INFO:
Anchor Bond® Novolac Epoxy, with the appropriate primer, 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:
97%

COLORS AVAILABLE:
Natural, red, light gray, dark gray and green.

FINISH CHARACTERISTICS:
Gloss

MIX RATIO:
½ gallon Part A / ½ gallon Part B / 1 Part C (20#)

RECOMMENDED THICKNESS / YIELD:
20.58 sq. ft/batch @ ¼" thickness

PACKAGING INFO:
5 batch kits
10 batch kits

STORAGE CONDITIONS:
Store all components in a dry area. Avoid excessive heat and do not freeze.

SHELF LIFE:
Two (2) years in original, unopened containers.

CURE SCHEDULE:

Pot life (.45 cu. ft. mix)	30-50 min @ 70 deg. F
Recoat or topcoat	12-16 hrs @70 deg. F
Light foot traffic	12-24 hrs @ 70 deg. F
Full cure (heavy traffic)	2-7 days @ 70 deg. F

PHYSICAL PROPERTIES

PROPERTIES	TEST METHOD	ANCHOR BOND® NOVOLAC 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	118.5 deg. F @ ASTM D648, ½" X ½" bar, span 4"	

CHEMICAL RESISTANCE DATA

REAGENT	RATING
xylene	D
1, 1, 1 trichloroethane	D
MEK	C
methanol	C
ethyl alcohol	C
skydrol	C
10% sodium hydroxide	E
50% sodium hydroxide	E
10% sulfuric acid	E
70% sulfuric acid	C
10% HCl (aq)	D
5% acetic acid	D

Rating key:
A = not recommended
B = 2 hour term splash spill
C = 8 hour term splash spill
D = 72 hour immersion
E = long term immersion

PRIMER:
Anchor Bond® 100% Solids Epoxy Primer
Anchor Bond® Novolac Primer – Clear

TOPCOAT:
No Topcoat is required. When applying Novolac in severe chemical exposure areas, topcoat with liquid portion of kit or suitable topcoat or grout coat to prevent chemical migration to the substrate.

ANCHOR BOND® NOVOLAC 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) PRODUCT MIXING:
This product has a mix ratio of 2 parts A Resin to 1 part B Hardener. Standard packages are in pre-measured kits and should be mixed as supplied in the kit. We highly recommend that the kits not be broken down unless suitable weighing equipment is available. After the two parts are combined, mix well with slow speed mixing equipment such as a jiffy mixer until the material is thoroughly mixed and streak free. After mixing, transfer the mixed material to another pail (the transfer pail) and again remix. The material in the transfer pail is now ready to be applied on the primed substrate.

4) PRIMING:
Anchor Bond® Damp Concrete Primer is suitable for most substrates. However, if the surface is very porous, then a lower solids primer such as Anchor Bond® Polyamide Epoxy Prime/Seal might be more suitable to reduce the possibility of air release problems occurring.

5) PRODUCT APPLICATION:
The mixed material when incorporating the proper blends of aggregates can be screened and troweled by hand or machine at thickness ranging from 1/8" or greater, and is ideal for pitching floors. Maintain temperatures and relative humidity within the recommended ranges during the application and curing process.

6) RECOAT OR TOPCOATING:
This product does not require a topcoat however many topcoats are suitable for placement over this product including urethanes, epoxied and novolacs. When topcoating this product, you must first be sure that the material has tacked off before topcoating. Always remember that colder temperatures will require more cure time for the product before topcoating can commence. Before topcoating, check the coating to verify no epoxy blushes were developed (a whitish, greasy film or deglossing). If a blush is present, it must be removed prior to topcoating. A standard type detergent cleaner can be used to remove any blush.

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.