# TECHNICAL DATA - DYMOND BONDMAXX 140
# CHEMICAL RESISTANT NOVOLAC EPOXY PRIMER

**PRODUCT DESCRIPTION:**
Dymond BondMaxx 140 is a two-component colored novolac epoxy primer. BondMaxx 140 offers high solids, good substrate penetration and low odor. It reduces air release from the substrate when applying higher-solids novolac topcoats, helping minimize surface imperfections in high-build and self-leveling coating systems.

**RECOMMENDED FOR:**
Recommended for priming concrete and cementitious substrates prior to applying compatible novolac topcoats. This product can withstand exposure to many chemicals.

**SOLIDS BY WEIGHT:**
Mixed = 85% (+/- 2%)
**SOLIDS BY VOLUME:**
Mixed = 80% (+/- 2%)
**VOLATILE ORGANIC CONTENT:**
Part A = 1.7 lb/gal; Part B = 1.25 lb/gal
Mixed VOC < 183 g/L
**STANDARD COLORS:**
Light gray, medium gray and tile red
**RECOMMENDED FILM THICKNESS:**
5-6 mils per coat wet thickness (yields 4-5 mils dry)
**COVERAGE PER GALLON:**
267-320 square feet at 5-6 mils wet thickness
**PACKAGING INFORMATION:**
3 gallon and 15 gallon kits (approximate volume)
3 gallon kit = 2 gallons Part A (9.95 lb/gal) and 1 gallon Part B (8.3 lb/gal)
**MIX RATIO:**
9.95 lb Part A (1 gallon) to 4.15 lb Part B (1/2 gallon); volumes approximate
**SHELF LIFE:**
1 year in unopened containers
**FINISH CHARACTERISTICS:**
Satin gloss (>20 at 60 degrees by glossmeter)
**FLEXIBILITY:**
No cracks on a 1/8 in. mandrel
**IMPACT RESISTANCE:**
Gardner Impact, direct = 50 in.-lb. (passed)
**ABRASION RESISTANCE:**
Taber abraser CS-17 wheel, 1,000 g load, 500 cycles = 26.1 mg loss
**ADHESION:**
375 psi by Elcometer (concrete failure, no delamination)
**VISCOSITY:**
Mixed = 250-500 cps (typical)
**DOT CLASSIFICATIONS:**
Part A: FLAMMABLE LIQUID N.O.S., 3, UN1993, PG III
Part B: FLAMMABLE LIQUID N.O.S., 3, UN1993, PG III

**CURE SCHEDULE: (70 degrees F)**

| | |
|---|---|
| Pot life (1.5 gallon volume) | 1-3 hours |
| Tack free (dry to touch) | 4-7 hours |
| Recoat or topcoat | 7-10 hours |
| Light foot traffic | 12-24 hours |
| Full cure (heavy traffic) | 2-7 days |

**APPLICATION TEMPERATURE:**
60-90 degrees F with relative humidity below 90%

**CHEMICAL RESISTANCE:**

| REAGENT | RATING |
|---|---|
| Acetic acid 5% | D |
| Xylene | D |
| Toluene | D |
| 1,1,1 trichloroethane | C |
| MEK | C |
| Methyl alcohol | C |
| Gasoline | D |
| 10% sodium hydroxide | E |
| 50% sodium hydroxide | E |
| 10% sulfuric acid | E |
| 10% hydrochloric acid | E |
| 20% nitric acid | C |
| Ethylene glycol | E |

Rating key: A - not recommended; B - 2-hour splash/spill; C - 8-hour splash/spill; D - 72-hour immersion; E - long-term immersion. Additional chemical resistance information is available from Dymond Coatings.

**PRIMER:**
None required
**TOPCOAT:**
Dymond SolidCor 230 Novolac Epoxy Topcoat is recommended. Other compatible novolac epoxy topcoats may also be suitable. Contact Dymond Coatings to confirm system compatibility.

**LIMITATIONS:**
Colors may be affected by high humidity, low temperatures or chemical exposure.
For best results, use a 3/8 in. nap roller.
Slabs on grade require a functioning moisture barrier.
Substrate temperature must be at least 5 degrees F above the dew point.
All new concrete must be cured for at least 30 days.
Physical properties are typical values and are not specifications.
This product should be topcoated with a suitable novolac epoxy topcoat.
Colors may vary from batch to batch.
See the following pages for mixing and application instructions.
See the final page for limitations of liability and warranty

## MIXING AND APPLICATION INSTRUCTIONS (Dymond BondMaxx 140)

**1) PRODUCT STORAGE:** Store the product so the material reaches normal room temperature before use. Continuous storage should be between 60 and 90 degrees F.

**2) SURFACE PREPARATION:** Surface preparation will vary according to the complete system being applied. For a one- or two-coat thin-build system (3-10 mils dry), mechanically scarify or acid etch until a suitable profile is achieved. For systems higher than 10 mils dry, a fine brush blast (shot blast) is recommended. Remove all dirt, oil, dust, foreign contaminants and laitance to assure a reliable bond. Confirm the concrete is dry by taping a 4 ft x 4 ft plastic sheet to the substrate. If the area below the sheet remains dry after 24 hours, the substrate is dry enough to coat. This test may also indicate hydrostatic pressure conditions that could later cause disbonding.

**3) PRODUCT MIXING:** This product has a mix ratio of 9.95 lb Part A to 4.15 lb Part B by weight. Combine the two components and mix thoroughly with slow-speed mixing equipment, such as a Jiffy mixer, until the material is uniform and streak-free.

**4) PRODUCT APPLICATION:** Apply the mixed material by brush or roller. Maintain the recommended temperature and humidity ranges throughout application and cure. Improper mixing or applying the product too thick may result in product failure.

**5) RECOAT OR TOPCOATING:** This product is a primer and should receive a compatible novolac topcoat. Before recoating or topcoating, confirm that solvents have evaporated during cure. The published cure schedule is a reliable guide, but test the coating by pressing firmly with a thumb. Proceed only when no fingerprint impression remains. Colder temperatures require additional cure time. Check for epoxy blush, visible as a whitish, greasy film or deglossing. Remove any blush with a standard detergent cleaner before recoating. Compatible novolac epoxy coatings are the primary topcoat choice. Multiple coats of BondMaxx 140 may be applied before the final topcoat.

**6) CLEANUP:** Use xylol.

**7) FLOOR CLEANING:** Some cleaners may affect the installed floor color. Test each cleaner and cleaning method in a small area first. Continue only if no adverse effects are observed.

**8) RESTRICTIONS:** Restrict the floor to light traffic and non-harsh chemicals until the coating is fully cured. Keep the floor dry throughout the full cure cycle. Depending on the installed system, the surface may be slippery when wet or contaminated; keep the floor clean and dry.

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

We warrant that our products are manufactured to strict quality assurance specifications and that the 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. Any use or application other than recommended herein is the sole responsibility of the user. Listed physical properties are typical and should not be construed as specifications.

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