



ENDURABOND 2002

Endurabond 2002 Part A & B

Description

Endurabond 2002 (Part A & B) is an epoxy resin specified where a superior coating/sealant is required. Endurabond 2002 is ideal for quick maintenance and repair projects. Endurabond 2002 will cure at ambient temperature conditions to provide exceptional structural strength. Endurabond 2002 is formulated to be adhesive, hard and tough and function as a preparatory coating for concrete and porous steel surfaces prior to rubber lining.

Outstanding Features

- Easy to use – flows well, good pot life, sets quickly.
- Resists steam cleaning and intermittent temperatures up to 250° F (121° C).
- Excellent physical properties – forms a strong adhesive bond that is extremely tough.

Concrete slabs to which Endurabond 2002 is applied must be free of laitance, curing compounds, oils or other release agents. Concrete mix may not contain water reducers, air entrainment agents or admixtures of any kind which may be detrimental to epoxy curing and adhesion.

The concrete must be at least 3000 psi at the surface. Floors should be designed to slope continuously to drains so that no puddling will occur. A slope of ¼" to the foot is recommended.

All surface contamination must be removed before application. Substrate temperature must be a minimum of 50° F (10° C). Ideally, all surfaces should be dry.

Steel surfaces must be blasted to a near-white condition and free of oil.



Typical Physical Properties:

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| Tensile strength (ASTM C307)..... | 2,200 psi (15.1 Mpa) |
| Comprehensive Strength (ASTM C-579) | |
| 15,00 psi..... | 7 days @ 70° F (21° C) (103.3 Mpa) |
| 15,00 psi..... | 28 days @ 70° F (21° C) (106.7 Mpa) |
| Flexural Strength (ASTM C-580)..... | 400 psi (27.5 Mpa) |
| Water Absorption..... | 0.23% |
| Shrinkage (ASTM C-351)..... | 0.1% MAX |
| Coefficient of Expansion (9ASTM C-531) | |
| | 2.4×10^{-5} in/in/°F (4.3×10^{-5} in/in/°C) |
| Heat Distortion Temperature (ASTM D-648)..... | 100° F (43° C) @ 66 psi |
| Heat Resistance..... | 200° F (93° C) (Continuous) |
| Heat Resistance..... | 220° F (104° C) (Intermittent) |
| Adhesion to Concrete (ASTM C-321)..... | 350 psi, greater than strength of concrete (2.4 Mpa) |
| Shear Bond Strength (ANSI 118.3)..... | 1,390 psi 7 days (9.6 Mpa) |
| Thermal Shock - | |
| Shear Bond Strength (ANSI 118.3)..... | 500 psi (3.4 Mpa) Water |
| Cleanability (ANSI 118.3)..... | 95 minutes |
| Coverage..... | 1,600 sq. ft./gal. @ 1.0 mil dry |

Mixing:

With a mechanical mixer, thoroughly stir the contents of Part A prior to the addition of Part B. While continuing to mechanically mix Part A, slowly add the contents of Part B. Continue mixing until both components are thoroughly mixed (usually 3 to 5 minutes).

Cure Rate:

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|-----------------------------------|------------------------|
| Cure Rate, Set Time 70° F (28° C) | |
| (ASTM C-308, ANSI 118.3) | |
| Pot Life..... | 30 to 40 minutes |
| Initial Set Time..... | 6.5 to 7 hours |
| Full Set Time..... | 24 hours |
| Full Cure..... | 5 days |
| Mix Ratio: | 2 : 1 Part A to Part B |

Application:

Heavy Duty Airless Equipment is necessary to spray this product. Typically a minimum of 45 to 1 ratio air pump will be required.

For rubber lining 2002 must be allowed to cure for 24 hours prior to applying rubber lining primer.

Surfaces may also be rolled, gloved or squeegeed.